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WEOFF VALVE MANUFACTURING CO.,LTD



球阀系列
ball valve series

WEOFF

沃奥芙阀门制造有限公司

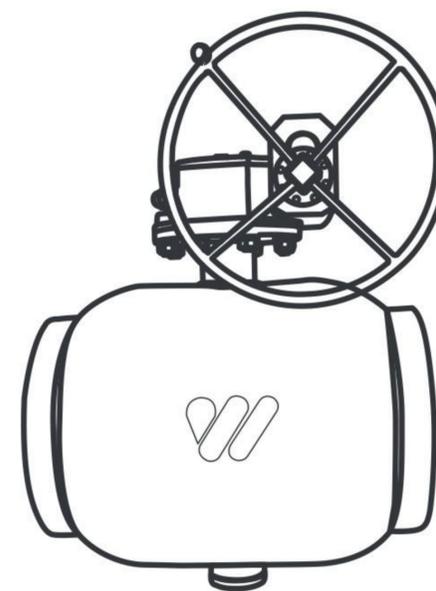
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沃奥芙
WEOFF



沃奥芙阀门

扬工匠精神 树百年品牌

追求至善境界 保持诚敬态度 具备创新意识
要制造，更要“智造” 构建自主品牌的灵魂





企业概况

经理致辞

首先，我谨代表沃奥芙全体员工向多年来关心与支持沃奥芙成长的各界领导，向真诚合作的老新客户致以最崇高的敬意！向关注沃奥芙发展的朋友们致以衷心的感谢！同时向为沃奥芙事业发展顽强拼搏、默默奉献的全体员工表示深切的慰问和由衷的感谢！

沃奥芙在创办之日就以“扬工匠精神，树百年品牌”为企业宗旨，致力于成为高端阀门，补偿器的制造商和服务提供商，不断革新技术和工艺，锐意创新，打造精品，开发研制出一系列拥有自主核心技术的产品。

经过多年的发展，沃奥芙产品广泛应用于全国各地石油化工、机械制造、航天航空、冶金电力、交通运输、制冷、城市建设建筑、供热、天

然气管道建设等行业产品，并远销内蒙、印尼等地，赢得了客户一致好评。

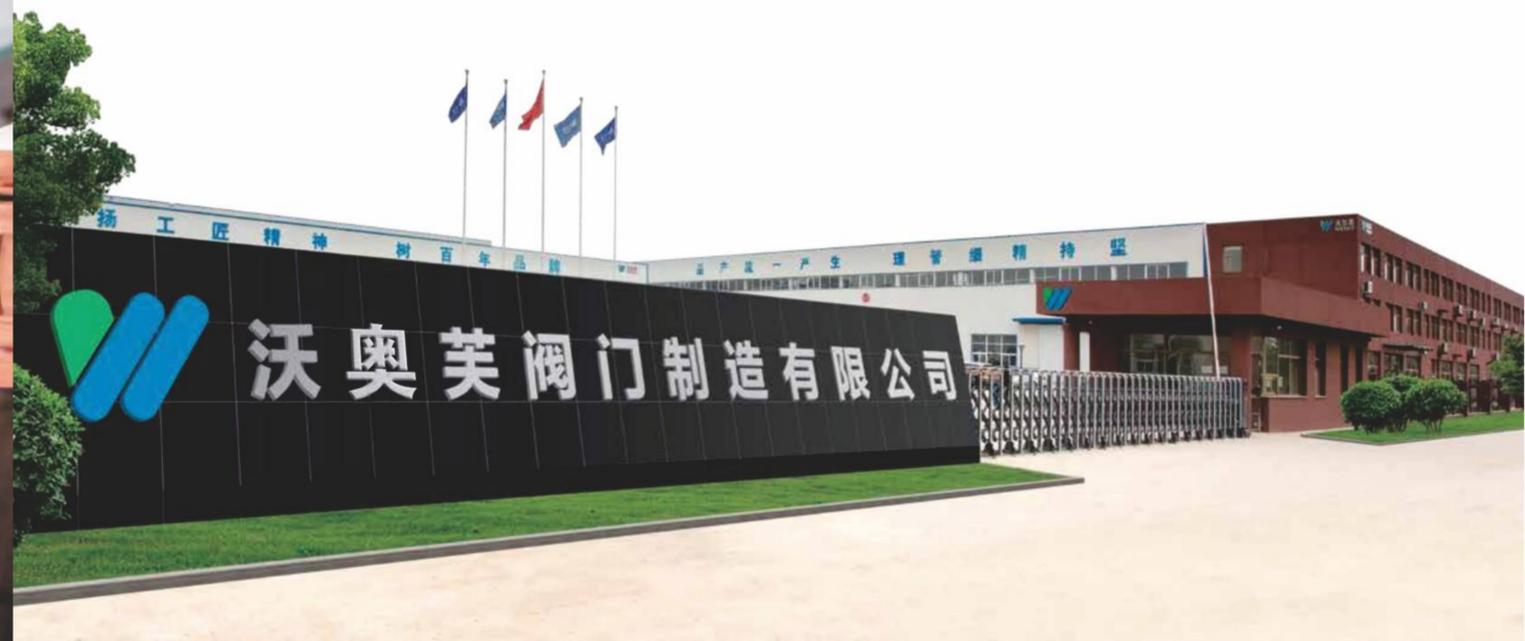
沃奥芙恪守“诚信是立业之本，发展是兴企之道”的企业理念，乘京津冀一体化之东风，借北京第二机场之地利，在各界领导和朋友们支持下，全体员工精诚团结、共同努力下，一定能够实现让沃奥芙成为中国最优秀的品牌。

欢迎您！尊敬的各界领导、客户朋友、供应商朋友、以及关注沃奥芙发展的新老朋友，莅临沃奥芙指导工作，观光休闲！

欢迎您！愿同沃奥芙一起发展的有识之士加盟沃奥芙，让我们一起创想未来，实现梦想！

祝朋友们身体健康，万事如意！

总经理





沃奥美厂区鸟瞰图

BRIEF 企业简介 INTRODUCTION

沃奥美阀门制造有限公司是高端阀门及补偿器的制造商和服务提供商，专业从事阀门及补偿器的研制、开发、生产，不断吸收德国合作企业领先的生产技术和生产工艺，努力打造国际一流的阀门及补偿器生产线，为客户提供舒适、安全、节能、环保的全方位解决方案。公司坐落于固安工业开发区，注册资金1亿元人民币，占地面积约55000平方米，建筑面积约35000平方米。公司现有员工350人，各类专业技术人员120人，其中高级工程师15人。是华北地区规模最大的阀门制造基地之一。

公司建立了完善的产品质量保证体系，先后取得了TS中华人民共和国特种设备生产许可证、ISO9001:2015质量体系认证、ISO14001:2015环境管理体系认证、ISO45001:2018职业健康安全管理体系认证、CE认证、美国API认证、发明专利证书、高新技术企业等认证。

公司设有阀门及补偿器研发中心、生产管理中心、理化试验检测中心。拥有数控加工一体化、焊接冷处理、装配组装、

机器人全自动焊接、等离子喷焊、大型球体抛光、理化及无损探伤检测、全自动压力及扭矩检测、阀门自动喷涂烤漆烘干等各类高精度、现代化的加工和检测设备。依托完善的管理模式、领先的技术和生产工艺，以及先进的测试系统使得产品质量得到不断提高，为国内外客户提供高品质的阀门产品。

公司以“扬工匠精神，树百年品牌”为企业宗旨，锐意创新，打造精品，开发研制出一系列拥有自主核心技术的产品。主要有球阀、蝶阀、闸阀、截止阀、水力控制阀、补偿器等系列产品。广泛应用在城市燃气、区域供热、建筑、石油、化工、造船、钢铁、电厂及海上钻井平台等领域。公司以过硬的产品、良好的信誉与国内众多大型知名企业建立了长期战略合作伙伴关系，在国内外市场上赢得了客户的信赖和尊重，并得到了广大用户的认可与好评。沃奥美恪守“诚信是立业之本，发展是兴企之道”的企业理念，以持续改造为动力，以产品创新求发展，为广大客户提供最优质的产品与服务。

沃奥美期待与您真诚合作，共创辉煌的明天！

Weoff Valve Manufacturing Ltd. is a manufacturer and service provider of high-end valves and compensators, specializing in the Research, Development, Production and continuous absorption of the German partner companies leading production technology and production processes, and strive to build a world-class valve. The company provides customers with comprehensive solutions of comfort, safety, energy saving and environmental protection. The company is located in the Gu'an Industrial Park, with a registered capital of RMB 100 million, covering an area of about 55,000 square meters and a construction area of about 1,000 square meters. 35000 square meters. The company now has 350 employees, 120 professional and technical personnel of all kinds, including 15 senior engineers. The company is one of the largest valve manufacturing bases in North China.

The company has established a perfect product quality assurance system, and has obtained the TS People's Republic of China special equipment production license. ISO9001:2015 Quality System Certification, ISO14001:2015 Environmental Management System Certification, ISO45001:2018 Occupational Health and Safety Management System Certification, CE Certification, US API Certification, Inventions Patent certificate, high-tech enterprises and other certifications.

The company has a valve and compensator research and development center, production management center, physical and chemical testing center. The company has CNC machining integration, welding cold treatment, assembly assembly, robot automatic welding, plasma spray welding, large spherical polishing, and other advanced technologies. Various types of high-precision and modernized equipment such as physical, chemical and nondestructive testing, automatic pressure and torque testing, automatic spraying of valves, baking and drying of paint, etc. Processing and testing equipment. Relying on the perfect management mode, leading technology and production process, as well as advanced testing system, the quality of products has been constantly improved. To provide high quality valve products for customers at home and abroad.

The company takes "carry forward the spirit of craftsmanship, tree hundred years of brand" as the enterprise tenet, forge ahead with innovation, create fine products, develop and produce a series of products with the following characteristics Products of independent core technology. Mainly ball valves, butterfly valves, gate valves, globe valves, hydraulic control valves, compensators and other series of products. Widely used in city gas, district heating, construction, petroleum, chemical industry, shipbuilding, iron and steel, power plants and offshore drilling platforms and other fields. The company has established long-term strategic partnership with many large domestic well-known enterprises with excellent products and good reputation. In the market to win the trust and respect of customers, and has been recognized and praised by the majority of users. Weoff scrupulously abides by the enterprise philosophy of "honesty is the foundation of the industry, development is the way to develop the enterprise", and takes continuous transformation as the motive power, and product innovation as the way to seek a better future. Development, to provide our customers with the best quality products and services.

Weoff looks forward to working with you in good faith to create a glorious tomorrow!

科技为先 浩然正气 品质永恒

TECHNOLOGY FIRST, INTEGRITY SUPREME, QUALITY FOREVER.



沃奥美阀门通过长期实践,在落实国家创新驱动战略、实现科技强企的过程中,为科技创新工作预研打好基础,围绕客户价值开展应用研究,构建有效支撑企业持续发展的科技创新体系。正是这勇于创新的企业精神,沃奥美企业保持了目前良好的发展局面。

Through long-term practice, Weoff valve has laid a good foundation for the pre research of scientific and technological innovation in the process of implementing the national innovation driven strategy and strengthening the enterprise through science and technology. We should carry out application research around customer value and build an effective scientific and technological innovation system to support the sustainable development of enterprises. It's the enterprising spirit of innovation that makes Weoff enterprise maintained the current good development situation.



严格检测 品质保障
STRICT TESTING QUALITY ASSURANCE

为了提供高品质产品,公司配置了先进的检测设备以及完善的检测手段。建立了一支严格要求的品质管理队伍。实现了从原材料的检测,生产过程检测和成品质量检测。

In order to provide high quality products, the company is equipped with advanced testing equipment and perfect testing means. Set up a strict quality management team. Realized from the raw material testing, production process testing and finished product quality testing.



检测中心 INSPECTION CENTER



工欲善其事 必先利其器

沃奥芙斥巨资引进高精度专用设备和卧式加工中心等高端设计，精良的设备代表拥有强大的生产保障能力，并确保卓越的产品品质。确保每一个阀门都能让您满意。

Weoff invested heavily to introduce high precision special equipment and horizontal machining center and other high-end design, excellent equipment represents a strong production protection To ensure excellent product quality. Make sure every valve is to your satisfaction.



发扬工匠精神 完善细节

PROMOTE THE SPIRIT OF CRAFTSMANSHIP AND ENSURE QUALITY



APPLICATIONS

产品应用领域



城市燃气 City gas



热电站 Thermal power plant



水电站 Hydroelectric station



石油化工 Petroleum and chemical industry

WEOFF
沃奥芙阀门



调压站 Pressure-regulation station



污水处理 Sewage Treatment



制药 Pharmacy



建筑行业 Architecture

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全焊接球阀生产制造技术说明：

全焊接球阀属沃奥芙阀门制造有限公司研发制造产品之一，均采用GB12237、ISO14313等标准研制开发生产，具有结构紧凑、美观大方、质量可靠；可根据用户提供的信息分别采用PTFE、RPTFE、PPL等做密封阀座，阀体材质采用25、35、304、316等材质；可安装在1.6Mpa~4.0Mpa的各种管路上，公称通径范围DN10mm~1400mm；根据不同的材质，适用温度可在-196℃~450℃范围内均能安全使用。所有的固定式球阀的阀座支撑圈内装弹簧使球阀与阀座密封之间保持良好的密合性，并能及时补偿球阀与阀座密封圈之间的磨损，使球阀与阀座密封性能达到最优、充分达到零泄漏的效果。适用介质：水、蒸气、油、酸等。是天然气管线、输油管线，热供网管、给排水等作为启闭装置的最佳选择。本公司可根据客户提供的相关信息设计制造各种结构的全焊接球阀。驱动装置可分别采用手动、蜗轮驱动、气动、电动执行器驱动等。

全焊接球阀技术特点：

一、阀体结构整体式焊接，不会有外部泄漏现象。

全焊接阀体设计成整体状结构，公司采用先进的锻压工艺技术，将阀体锻压成整体形状，整体状结构主体采用精密数控焊接设备焊接，上下阀杆支撑结构与主体焊接连接，阀体重量轻，起吊方便，成本低，市场竞争有明显优势。

二、球体与支撑形式

球体的加工采用高精度镜面磨削专机加工，保证球体的圆度、同轴度、同心度的设计要求，控制圆度小于0.02mm，粗糙度Ra0.2~0.10μm。检测采用设备自带雷尼绍电子探头（测量精度为0.001mm）对球体一次性检查完成，有效保证了检测数据与三维坐标仪测量结果的一致性。

球体支撑有两种方式：一种是上/下阀杆支撑式，即设计是球体车削成内孔，上下由二个支撑轴支撑在阀体上2；另一种是枢轴式支撑，即是在球体上车削成上/下轴颈，并用二个上/下支撑板支撑。

三、阀座密封结构形式

阀座与阀体采用O型圈密封；阀座与球体密封，因为碟簧压缩后回弹小，可能有压缩后弹力失效，而达不到密封，本公司均采用高强度17-4不锈钢圆柱压缩弹簧，压缩圆柱弹簧推动阀座，使阀座与球体密封，并能及时补偿球阀与阀座密封圈之间的磨损，使球阀与阀座密封性能达到最优、充分达到零泄漏的效果。

1) 金属对非金属密封阀座

阀座与球体采用组合密封结构，即金属球体对PTFE、PPL、PEEK等非金属材料的主密封，阀座由PTFE、PPL、PEEK等密封环及弹簧组成对压力和温度的变化适应能力强，以保证密封“零”级泄漏。阀座与阀体密封用的O型橡胶圈有圆形，三角形或其他特殊形状，PTFE、PEEK的密封圈，采用筒状镶嵌式结构，做成倒钩状组合式结构，保证密封圈不被吹出而导致密封失效。

2) 金属对金属密封阀座

对于软密封不适合的恶劣应用工况，可以提供金属对金属的密封设计。此设计在球阀和阀座表面均采用喷涂碳化钨等涂层，因此具备高防腐性能和耐磨性能，适合高磨损颗粒工况环境。

四、阀杆的密封与结构

为了使阀杆有更好的密封性能，阀杆密封采用O型圈和压紧石墨填料组成阀杆区域密封。阀杆的防渗漏结构，上阀杆底部有1个PTFE自封密封垫，上面有2个O型密封圈、两个PTFE密封垫组成，确保无泄露。

上下阀杆固定球结构保证较低的操作扭矩，阀杆由外包PTFE的不锈钢滑动轴承支撑做平滑精确的转动。滑动轴承支撑的阀杆可以吸收管线压力产生的推力，防止球阀和阀座之间的摩擦增加，因此即使在全压差下，操作扭矩依然保持很低。

五、阀体材料与管道材质相同，不会出现应力不匀，也不会由于地震及车辆经过地面时而挤压变形。

六、阀体重量轻结构紧凑且易于保温。

七、直埋式球阀采用加长阀杆设计可以直接埋于地下，不用建高大阀门井，只需地面上设置小型浅井，大大节省施工费用及工程时间，可根据管道的施工及设计要求调整阀体的长短和阀杆高度。

八、阀门与管道的连接

连接方式有焊接与焊接、法兰与法兰、焊接与法兰、焊接与螺纹等多种连接方式。

九、操作方式：

手柄、齿轮、气动、电动、电液动等驱动形式，方便用户选择。

全焊接球阀技术特点

Technical features of fully welded body ball valves

Technical specification for the manufacturing of fully welded body ball valves

As one of the products designed and produced by WEOFF Valve Manufacturing Co., Ltd., the fully welded body ball valves conform to the standards GB12237, ISO14313, etc. The seat can be made of PTFE, RPTFE, PPL, etc, based on the information provided by the customers. The body is made of steel 25, 35, 304, 316, etc. The valves can be installed on all kinds of pipeline with 1.6MPa ~ 4.0MPa, DN 10mm ~ 1400mm. With different materials, the valves can be used safely for a temperature between -196°C and 450°C. Springs in the supporting ring of all the fixed ball valves realize a good sealing effect between the ball and the seat, and can compensate timely for the wear between the ball and the seat, achieving the best sealing performance, with zero leakage. Applicable medium: water, steam, oil, acid, etc. The valves are open/close devices most suitable for natural gas pipeline, petroleum pipeline, heat supply network, and water supply and drainage system. WEOFF can design and produce fully welded body ball valves of different structures, based on the information provided by the customers. The actuators can be manual, worm gear operated, pneumatic, or electrical, etc.

Technical features of full-welded ball valves

(1) The body is welded as a whole, so no external leakage will occur. The fully welded body is designed as a whole. With advanced process of forging and stamping, WEOFF realizes a whole body. The main structure is welded with precise NC welding machine. The upper and lower supporting elements and the main structure are welded together. With a light weight, the body is easy to lift, and is competitive with its cost-saving feature.

(2) The ball and the patterns of supporting
The ball is processed with highly-precise special mirror finish grinding machine to ensure the roundness, the coaxiality, and concentricity. The roundness is within 0.02mm, the roughness is Ra0.2~0.10 μm. The detection is realized once with the built-in Renishaw probe (accuracy: 0.001mm) of the equipment, ensuring the consistency between the detected data and the results obtained from the 3D coordinate measuring instrument.

There are two patterns of ball-supporting:

- (i) support by upper/lower stems: holes are made in the ball by turning, and upper/lower supporting shafts are supported by the body;
- (ii) support of pivot type: upper/lower trunnions are made on the ball and supported by upper/lower support plates.

(3) The sealing structures of seat
The seat and body are sealed by O-ring; about the seal between the seat and ball, the disc spring may fail due to its small restoring distance, so WEOFF uses cylindrical compression springs of high strength stainless steel 17-4. The compressed cylindrical springs push the seat against the ball, realizing a seal and compensating the wear of the seat and the ball, ensuring the best sealing performance, with zero leakage.

(i) The metal-nonmetal sealing seat
A combined sealing structure is used for the seat and the ball, i.e. the primary seal between the metallic ball and the non-metallic material PTFE, PPL, PEEK, etc. The seat is formed by sealing ring of PTFE, PPL, PEEK, etc. adaptive to the change of pressure and temperature, to ensure zero leakage. The rubber O-rings for the sealing between the seat and the body are circular, triangular, or in any other special forms. The sealing rings of PTFE, PEEK take a cylindrical, inlaying combined structure in a form of inverted hook, to prevent the sealing failure caused by the blow-out of the sealing rings.

(ii) Metal-metal sealing seat
For the severe working conditions for which the soft seal is not suitable, the metal-metal seal is designed. According to this design, sprayed Tungsten Carbide coating is applied to both the ball surface and the seat surface, hence a good corrosion-resistant, abrasion-resistant performance is achieved, suitable for the working conditions with high abrasive particles.

(4) The sealing and the structure of the stem
For a better sealing of the stem, O-rings and graphite packing form a seal for the area of the stem. The leakage proof structure of the stem is formed by 1 PTFE self-sealing gasket at the bottom of the upper stem, constituted by 2 O-rings, 2 PTFE gaskets, to ensure zero leakage.

The ball-fixing structure by upper/lower stems ensures a low operating torque. The stem is supported by the stainless steel sliding bearing coated with PTFE, and rotates smoothly and precisely. The stem supported by the sliding bearing can absorb the pushing force caused by the pressure of the pipeline, preventing the friction between the ball and the seat from increasing. Therefore, the operating torque remains low even under the full differential pressure.

(5) The material of the body is the same as that of the pipe, so the stress remains uniform. The body will not be deformed by earthquakes and the pressure of passing vehicles on the ground.

(6) The body is lightweight, compact, and easy for heat insulation.

(7) With an extension, the directly buried ball valves can be fully buried underground, not requiring a big valve well: a small shallow well on the ground is sufficient, greatly reducing the costs and time of construction. The length of the body and the height of the valves can be adjusted with the requirement of the pipeline design and construction.

(8) The connection between valves and pipe
Welding / welding; flanged / flanged; welding / flanged; welding / threaded, etc.

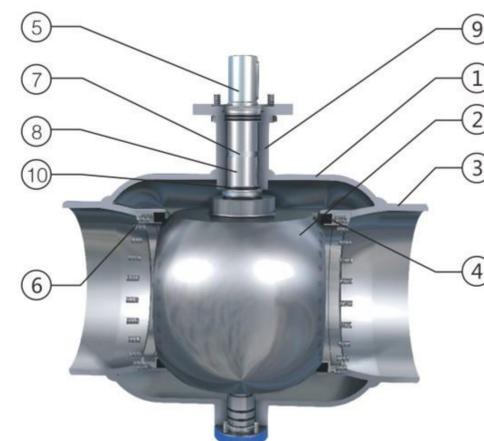
(9) Type of operation
Manual, gear, pneumatic, electrical, electro-hydraulic.

全焊接球阀技术特点

Technical features of fully welded body ball valves

产品特性

- 整体式焊接球阀，不会有外部泄漏等现象。
- 由于阀座是由碳化特氟隆密封环及弹簧构成的，所以对压力和温度的变化适应能力强，在标注压力和温度范围内不会产生任何泄漏。
- 球体的加工过程由先进的计算机检测仪跟踪监测，所以球体的加工精度高。
- 由于阀体材料跟管道材质一样，不会出现应力不均。也不会因地震及车辆经过地面而产生变形，管道耐老化。
- 密封环采用含量25%Carbon (碳素)的C-PTFE材质，保障完全无泄漏。
- 直埋式焊接球阀可以直接埋于地下，不用建高大阀门井，只需在地面上设置小型浅井，大大节省施工费用及工程时间。
- 可根据管道的施工及设计的要求，调整阀体的长短和阀杆的高度。
- 球体的加工精度非常精密，操作轻便，无不良干涉。
- 采用高级的原材料，能保证PN25以上的压力。
- 与同类行业的同种规格产品相比，阀体小，外形美观。
- 在阀门正常操作、使用的情况下，质保20年。



NO.	零部件名称 Part name	材料	Material
1	阀体 Body	钢管	ASTM A53或同等材质 Or similar material
2	球 Ball	不锈钢	AISI 304
3	管接头 End piece	钢管	ASTM A53或同等材质 Or similar material
4	密封环 Sealing ring	碳化特氟隆	25% C+PTFE
5	阀轴 Stem-s	不锈钢	AISI 304
6	弹簧 Spring	合金钢	SM20C
7	O型环 O-ring	氟橡胶	VITON
8	干式轴承 Du-bushing	钢特氟隆	SPCB+PTFE
9	阀杆轴套 Stem neck	碳钢	AISI 1020(SM20C)
10	推力轴承 Thrust bearing	特氟隆	PTFE

Product features

- For the one-piece overall-welded ball valves, external leakage will not occur.
- The seat is made up of carbonized Teflon sealing rings and springs, and the adaptability to the pressure and temperature is strong and no leakage will occur in the range of specified pressure and temperature.
- The machining of the ball is tracked and detected by advanced computer, so it's precise.
- The material of the body is the same as that of the pipeline, hence there will be no uneven stress. And the pipeline will not deform due to the earthquake or passing vehicle pressures over the ground. The pipeline is aging resisting.
- Seal rings with 25% Carbon C - PTFE guarantees zero leakage.
- Directly buried welded ball valves can be directly buried under the ground. Building of massive valve wells is no longer necessary. A small shallow well on ground is sufficient. Thus cost and time needed by construction will be greatly reduced.
- The body length and the stem height is adjustable according to the requirements of the construction and design of pipelines.
- The processing of the ball is highly precise, thus it is easy to operate and there will be no interference.
- The adoption of advanced raw materials can ensure the withstanding of pressures over PN25.
- Compared with the same kind of valve for the similar industry, the body is small and the shape is nice.
- Under the condition of normal operation and use, quality assurance period is 20 years.

燃气全焊接球阀生产制造技术说明

Technical specification for manufacturing of fully welded body ball valves for gas



燃气直埋式全焊接球阀概述

Introduction of directly buried fully welded body ball valves for gas

全焊接直埋球阀概述

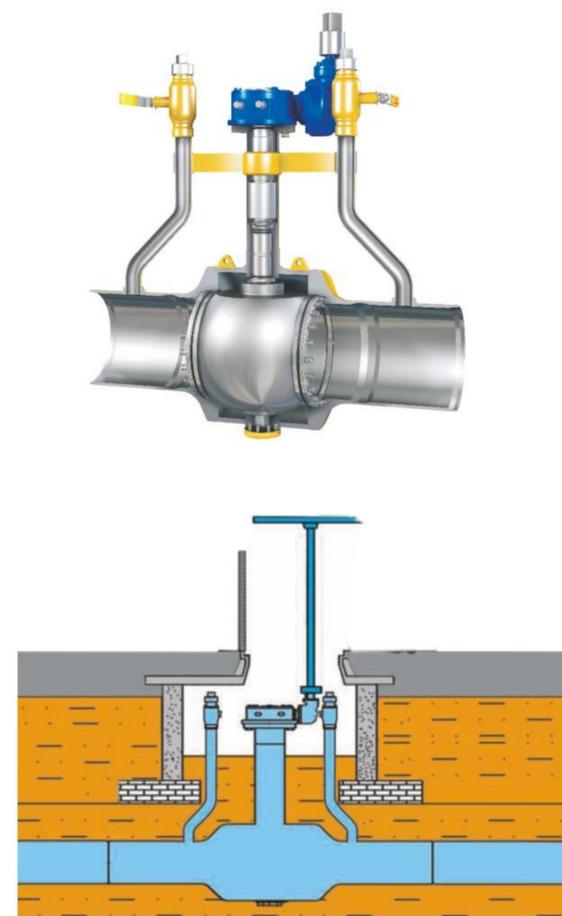
全焊接直埋球阀，广泛应用于城市燃气的地下管线，天然气输送管线，调压站等领域。通过不断的研究和创新，以及对产品质量的精益求精。已赢得世界多个国家的信赖和好评。

全焊接直埋球阀，由于阀门的整体结构采用全焊接的工艺结构，使阀门的内、外密封得到了极大的提高，阀门的重量得到了很大的降低（特别是DN300以下）。使阀门的安装变得更为便捷，不仅降低了工程施工的成本，也节省了时间。

全焊接直埋球阀，可以直接深埋地下。不用设置地下阀门控制室（如图），这样操作者不需要进入地下，只需在地上用T型手柄进行传动操作即可，非常方便，避免了以往由于设置地下阀门控制室而存在的不安全隐患。

全焊接直埋球阀，可根据用户燃气管道的埋地深度，来为您设计不同的阀门高度。同时，也可根据用户对阀门连接端口的不同需要，为您设计了多种端口连接方式，供您选择。

全焊接球阀分标准径和通径两种供您选择。



Introduction of directly buried fully welded body ball valves

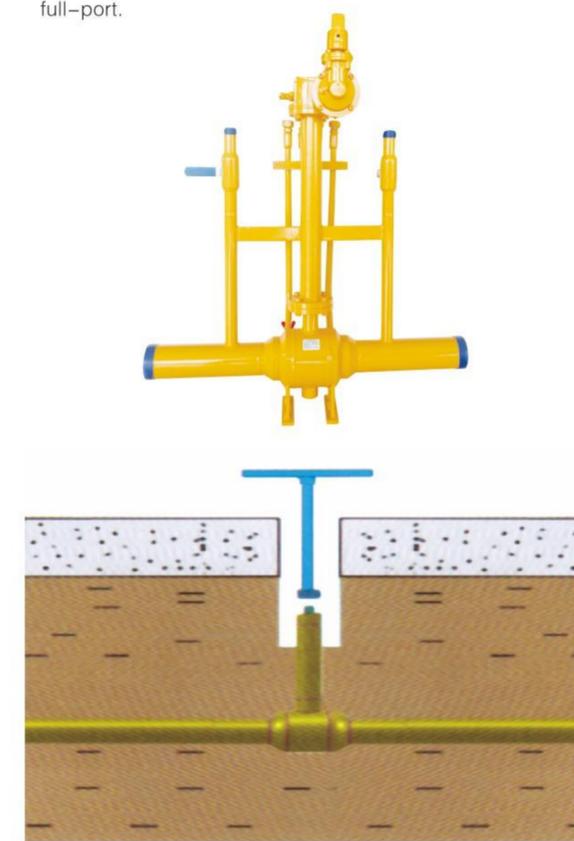
Directly buried fully welded body ball valves are widely used on the underground pipelines for city gas, natural gas and used in pressure-regulation stations.

Directly buried fully welded body ball valves, due to the whole structure, have an improved internal and external sealing, and a greatly lowered weight (especially for DN300 and the smaller diameters). The installation of valves is easier and faster, reducing the cost and time of construction.

Directly buried fully welded body ball valves can be directly in the deep underground, no need for a underground valve control chamber (as shown in the picture). Therefore, the operator doesn't need to go down to the underground, just needs to operate on the ground with a T-handle, which is more convenient, avoiding the safety risk associated with the underground valve control chamber.

The height of a directly buried fully welded body ball valve can be designed according to the depth of the underground gas pipeline. And various type of valve end connections are available for your choice.

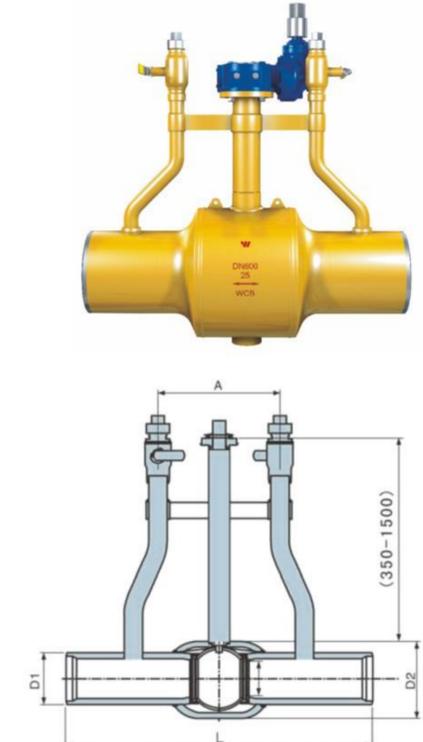
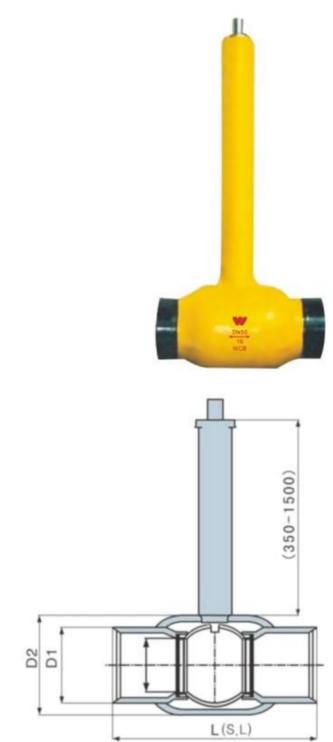
Fully welded body ball valves are available as reduced-port and full-port.



燃气全焊接球阀产品目录
Catalog - fully welded body ball valves for gas



标准径燃气直埋式全焊接球阀
Reduced-port directly buried fully welded body ball valve for gas



标准直埋式 Reduced-port directly buried

SIZE DN	型号 Model	D1		D2	L	
		EN	GOST		S	L
Dn50	1R0502HT	60.3	57.0	89	300	1000
DN65	1R0652HT	76.1	76.3	114	300	1000
DN80	1R0802HT	88.3	89.0	140	300	1000
DN100	1R1002HT	114.3	108.0	165	325	1000
DN150	1R1502HT	168.3	159.0	219	350	1000
DN200	1R2002HT	219.1	219.1	267	400	1000
DN250	1R2502HT	273.0	273.1	355	560	1000
DN300	1R3002HT	323.9	323.9	457	635	1100
DN400	1R4002HT	406.4	426.0	558	760	1360
DN500	1R5002HT	508.0	530.0	660	910	1510
DN600	1R6002HT	609.6	630.0	812	1065	1660
DN700	1R7002HT	712.2	720.0	1016	1346	1940
DN800	1R8002HT	812.8	820.0	1095	1524	2120
DN900	1R9002HT	914.4	920.0	1237	1727	2320

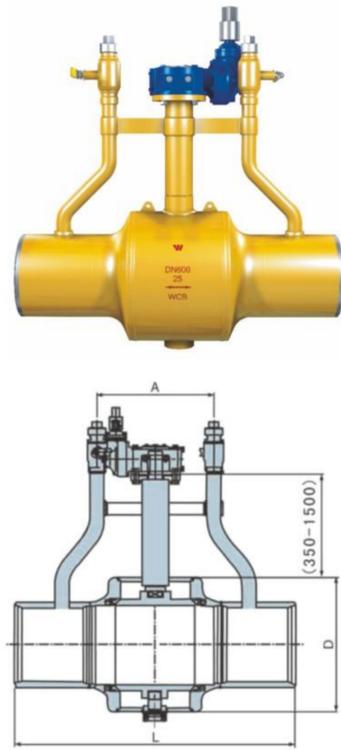
标准形排气直埋式 Reduced-port exhaust directly buried

SIZE DN	型号 Model	A	D1		D2	L
			EN	GOST		
DN50	2R0502HT	300	60.3	57.0	89	1000
DN65	2R0652HT	300	76.1	76.3	114	1000
DN80	2R0802HT	300	88.3	89.0	140	1000
DN100	2R1002HT	340	114.3	108.0	165	1000
DN125	2R1252HT	400	141.3	133.0	216	1000
DN150	2R1502HT	400	168.3	159.0	219	1000
DN200	2R2002HV	400	219.1	219.1	267	1000
DN250	2R2502HV	400	273.0	273.1	355	1000
DN300	2R3002HV	500	323.9	323.9	457	1100
DN350	2R3502HV	500	355.6	377.0	508	1250
DN400	2R4002HV	500	406.4	426.0	558	1360
DN450	2R4502HV	500	457.2	-	558	1440
DN500	2R5002HV	600	508.0	530.0	660	1510
DN550	2R5502HV	600	559.0	-	718	1690
DN600	2R6002HV	650	609.6	630.0	812	1660
DN650	2R6502HV	650	-	-	898	1840
DN700	2R7002HV	700	712.2	720.0	1016	1940
DN750	2R7502HV	700	-	-	1020	2000
DN800	2R8002HV	800	812.8	820.0	1095	2120
DN850	2R8502HV	800	-	-	1172	2220
DN900	2R9002HV	800	914.4	920.0	1245	2400

直通燃气排气直埋式全焊接球阀
Directly buried full-port fully welded body ball valve for gas exhaust



直通直埋式 (短体形)
Full-port directly buried (short body shape)



直通排气直埋式 (长体形)
Full-port exhaust directly buried (long body shape)

直通直埋式 Full-port directly buried

SIZE DN	型号 Model	L	D1		D2
			EN	GOST	
DN50	1F0502HV	300	60.3	57.0	114
DN65	1F0652HV	300	76.1	76.3	140
DN80	1F0802HV	300	88.3	89.0	165
DN100	1F1002HV	325	114.6	108.0	216
DN125	1F1252HV	350	141.3	133.0	219
DN150	1F1502HV	490	168.3	159.0	355
DN200	1F2002HV	580	219.1	219.1	356
DN250	1F2502HV	550	273.0	273.1	457
DN300	1F3002HV	630	323.9	323.9	508
DN350	1F3502HV	762	355.6	377.0	559
DN400	1F4002HV	840	406.4	426.0	660
DN500	1F5002HV	1010	508.0	530.0	812
DN600	1F6002HV	1140	609.6	630.0	1016
DN700	1F7002HV	1346	712.2	720.0	1095
DN800	1F8002HV	1524	812.8	820.0	1237
DN900	1F9002HV	1727	914.4	920.0	1385

直通直埋式 Full-port directly buried

SIZE DN	型号 Model	A	L	D
DN65	2F0652H	300	1000	138
DN80	2F0802H	300	1000	165
DN100	2F1002H	300	1000	165
DN150(H)	2F1502H	400	1000	200
DN150(G)	2F1502H	400	1000	300
DN200	2F2002H	400	1000	380
DN250	2F2502H	400	1000	450
DN300	2F3002H	500	1200	550
DN400	2F4002H	500	1480	670
DN500	2F5002H	600	1765	800
DN600	2F6002H	650	1800	970
DN650	2F6502H	650	1850	1050
DN700	2F7002H	700	1950	1090
DN750	2F7502H	750	2000	1180
DN800	2F8002H	800	2150	1245
DN850	2F8502H	850	2200	1360
DN900	2F9002H	900	2400	1420

供热全焊接球阀生产制造技术说明

Technical specification for manufacturing of fully welded body ball valves for heat supply

沃奥芙是专业生产及销售全焊接球阀的企业，生产口径DN15A-DN1200A，利用先进的设计制造出高品质的标准化球阀。

产品广泛应用于集中供热、造船、钢铁、发电厂的各类管道设备上。公司以高品质、迅速供货、有竞争力的价格占领中国区域供热市场。

WEOFF, a specialist in the production and sale of fully welded body valves, produces valves of DN 15A-DN 1200A.

The products are widely used in the pipeline of central heating system, ship-building plants, steel plants, and power plants. With high quality, fast delivery and competitive price, WEOFF plays an important role in the heat-supply market of China.



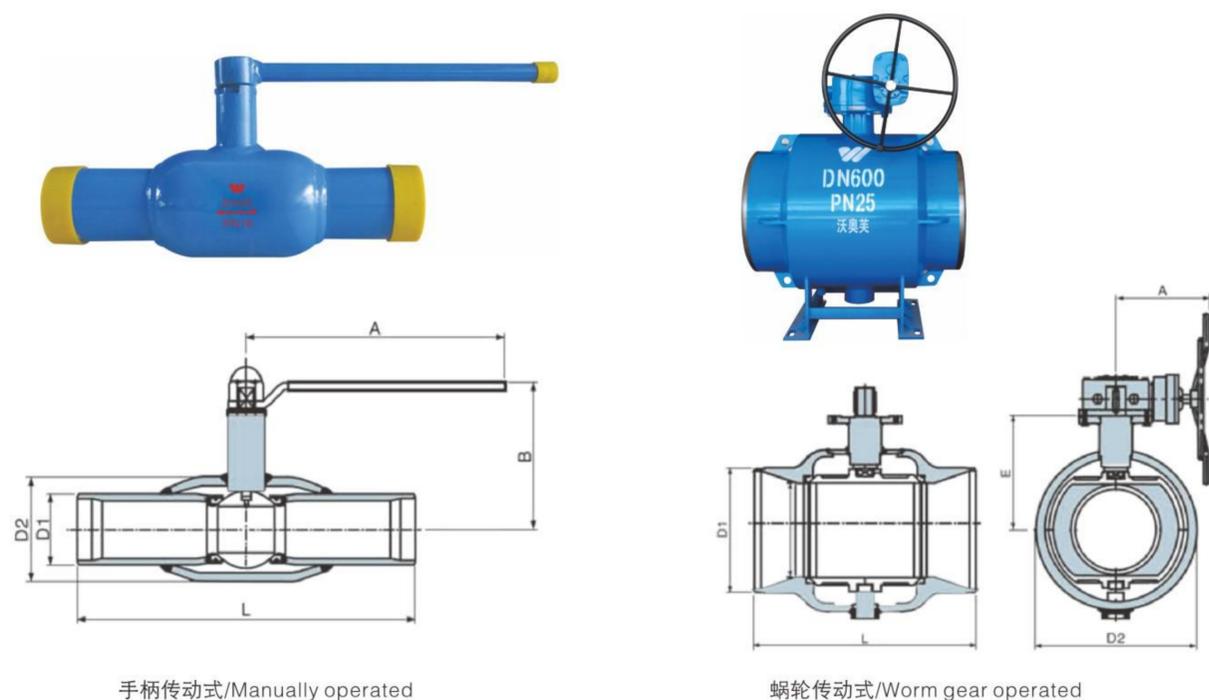
供热全焊接球阀产品目录

Catalog - fully welded body ball valve for heat supply



标准径供热用全焊接球阀

Reduced-port fully welded body ball valve for heat supply



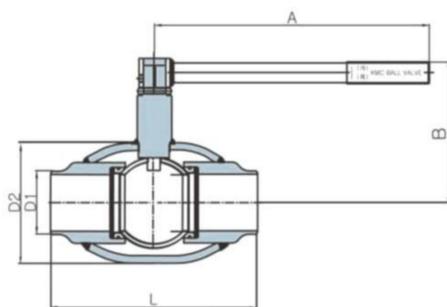
手柄传动式 Manually operated

SIZE DN	型号 Model	A	B	L	D1		D2
					EN	GOST	
DN15	1R01520L	129	64	210	21.3	21.7	42
DN20	1R02020L	129	64	230	26.7	27.2	42
DN25	1R02520L	159	76	230	33.4	34.0	48
DN32	1R03220L	159	85	260	42.2	42.7	60
DN40	1R04020L	230	95	300	48.3	48.6	76
DN50	1R05020L	230	100	300	60.3	57.0	89
DN65	1R06520L	300	159	300	76.1	76.3	114
DN80	1R08020L	300	170	300	88.3	89.0	140
DN100	1R10020L	450	192	325	114.3	108.0	185
DN125	1R12520L	450	208	325	141.3	133.0	216
DN150	1R15020L	450	241	350	168.3	159.0	219

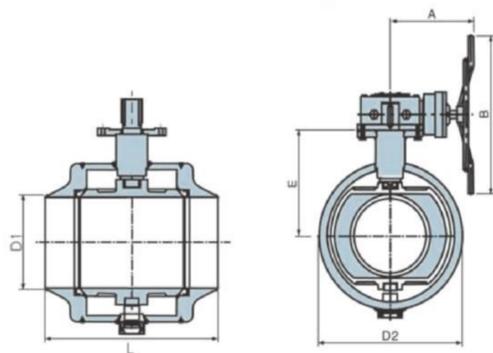
蜗轮传动式 Worm gear operated

SIZE DN	型号 Model	A	B	L	D1		D2	E
					EN	GOST		
DN200	1R20020H	243	400	402	219.1	219.1	267	315
DN250	1R25020H	252	500	525	273.0	273.1	356	346
DN300	1R30020H	236	500	648	323.9	323.9	457	402
DN350	1R35020H	331	600	692	355.6	377.0	508	491
DN400	1R40020H	331	600	755	406.4	426.0	559	479
DN450	1R45020H	331	600	838	457.2	-	559	479
DN500	1R50020H	360	700	914	508.0	530.0	680	540
DN550	1R55020H	360	700	1035	559.0	-	718	577
DN600	1R60020H	413	800	1060	609.6	630.0	812	662
DN650	1R65020H	413	800	1245	-	-	898	755
DN700	1R70020H	433	900	1346	712.2	720.0	1016	790
DN750	1R75020H	433	900	1397	-	-	1020	835
DN800	1R80020H	433	900	1524	812.8	820.0	1095	860
DN850	1R85020H	433	900	1625	-	-	1172	793
DN900	1R90020H	433	900	1727	914.4	920.0	1237	913
DN1000	1R100020H	433	900	1900	1016.0	1020.0	1385	965
DN1100	1R110020H	550	900	2000	1117.6	1117.6	1600	970
DN1200	1R120020H	550	900	2100	1219.2	1220.0	1700	975
DN1300	1R130020H	550	900	2200	1320.8	1320.8	1967	980
DN1400	1R140020H	550	900	2300	1422.4	1420.0	2100	990

全口径焊接式球阀 (短体型)
Full-port welding ends ball valve
(short body shape)



手柄传动式/Manually operated



蜗轮传动式/Worm gear operated

手柄传动式 Manually operated

SIZE DN	型号 Model	A	B	L	D1		D2
					EN	GOST	
DN15	1F01520H	129	90	210	21.3	21.7	42.7
DN20	1F02020H	159	103	230	26.7	27.2	48.0
DN25	1F02520H	159	107	260	33.4	34.0	60.0
DN32	1F03220H	230	120	260	42.2	42.7	76.0
DN40	1F04020H	230	126	300	48.3	48.6	89.0
DN50	1F05020H	300	177	300	60.3	57.0	114.0
DN65	1F06520H	300	186	300	76.1	76.3	140.0
DN80	1F08020H	400	210	300	88.3	89.1	165.0
DN100	1F10020H	400	214	325	114.3	108.0	216.0
DN125	1F12520H	450	220	350	141.3	133.0	219.0
DN150	1F15020H	450	280	490	168.3	159.0	355.0

■ DN150根据客户需要可选择齿轮。 DN150 can be gear operated, at the request of the customer

蜗轮传动式 Worm gear operated

SIZE DN	型号 Model	A	B	L	D1		D2	E
					EN	GOST		
DN200	1F20020H	252	500	580	219.1	219.1	356	345
DN250	1F25020H	236	500	550	273.0	273.1	457	402
DN300	1F30020H	331	600	630	323.9	323.9	508	491
DN350	1F35020H	331	600	762	355.6	377.0	559	479
DN400	1F40020H	360	700	840	406.4	426	660	540
DN500	1F50020H	413	800	1010	508.0	530.0	812	662
DN600	1F60020H	433	900	1140	609.6	630.0	1016	790
DN700	1F70020H	433	900	1346	712.2	720.0	1095	860
DN800	1F80020H	433	900	1524	812.8	820.0	1237	913
DN900	1F90020H	433	900	1727	914.4	920.0	1385	965
DN1000	1F100020H	550	900	1900	1016.0	1020.0	1600	970
DN1100	1F110020H	550	900	2000	1117.6	1117.6	1700	975
DN1200	1F120020H	550	900	2100	1219.2	1220.0	1967	980
DN1300	1F130020H	550	900	2200	1320.8	1320.8	2100	990
DN1400	1F140020H	550	900	2300	1422.4	1420.0	2281	990

供热用直埋式全焊接球阀

Directly buried fully welded body ball valve
for heat supply

主要材质 Main Materials

- ▲ 管接头: 碳素钢
End Piece: Carbon steel
ASTM A106 Gr.B Or Equivalent
- ▲ 保温材料: 聚乙烯发泡
Insulation: Expanded Polyethylene;
EN253, ISO1922, 4590, etc.



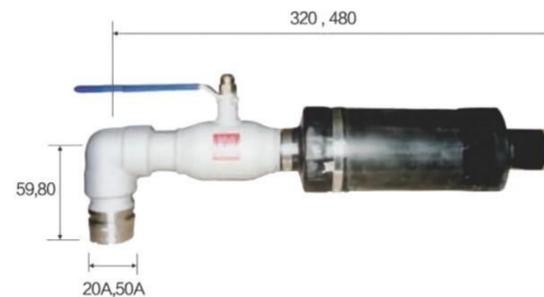
标准形直埋式 (短体形/长体形)
Reduced-port directly buried type (Short body shape/long body shape)

预制保温球阀说明

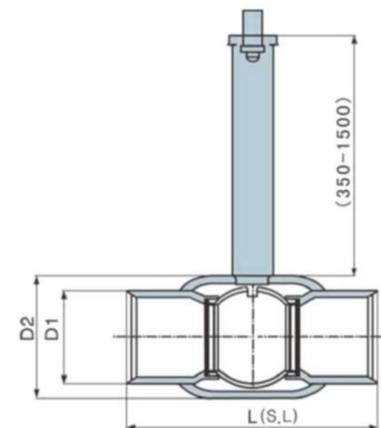
预制保温球阀主要用于供热行业中的水、气管线上, 由于采用了先进的保温设施, 极大的降低了热量损失, 满足了用户的使用需求, 同时也方便了施工。

Introduction of prefabricated heat insulation ball valve

Prefabricated heat insulation ball valves are mainly used in the water or steam pipeline of the heat supply industry. The advanced heat insulation process reduces greatly the heat loss, meeting the need of the customers and facilitating the construction.



- ▲ 外管: 高密度无缝管
Casing Pipe: High Density
Polyethylene Pipe(HDPE)



标准直埋式 Reduced-port directly buried

SIZE DN	型号 Model	D1		D2	L	
		EN	GOST		S	L
DN50	1R0502HT	60.3	57.0	89	300	1000
DN65	1R0652HT	76.1	76.3	114	300	1000
DN80	1R0802HT	88.3	89.0	140	300	1000
DN100	1R1002HT	114.3	108.0	165	325	1000
DN150	1R1502HT	168.3	159.0	219	350	1000
DN200	1R2002HT	219.1	219.1	267	400	1000
DN250	1R2502HT	273.0	273.1	355	560	1000
DN300	1R3002HT	323.9	323.9	457	635	1100
DN400	1R4002HT	406.4	426.0	558	760	1360
DN500	1R5002HT	508.0	530.0	660	910	1510
DN600	1R6002HT	609.6	630.0	812	1065	1660
DN700	1R7002HT	712.2	720.0	1016	1346	1940
DN800	1R8002HT	812.8	820.0	1095	1524	2120
DN900	1R9002HT	914.4	920.0	1237	1727	2320

电动全焊接球阀

Electrically operated fully welded body ball valves



技术参数 Technical parameters

- 1.防护等级: Ip68 Protection level:Ip68
- 2.防爆等级 Explosion-proof level:EEExd II CT4
- 3.电机功率 Motor power: 0.4~14kw
- 4.电压 Voltage: 380V x 3Ph x 50Hz
- 5.工作温度 Working temperature: -30°C~70°C

电动执行器可选品牌

Brands of electric actuator available for choice

产地 Country of origin	品牌 brand
美国 United States	(罗托克) Rotork
英国 UK	(利米托克) Limitorque
德国 Germany	(奥玛) Auma
意大利 Italy	(比费) Biffi
中国 China	(格雷托克) Greatork

球阀 Ball valve												
DN	200	250	300	400	500	500	600	600	800	800	1000	
PN	25	25	25	25	25	25	25	25	25	25	25	
阀门口径 Bore (port)	R	R	R	R	F	R	F	R	F	R	R	
扭矩 Torque(N-m)	253	494	950	1360	4950	4275	7500	4950	21750	13050	27900	
蜗轮 Worm gear												
型号 Model	KWG	KWG	KWG	KWG	KWG	KWG	KWG	KWG	KWG	KWG	KWG	
	00	01	02	03-1S	04-1S	05-1S	05-1S	05-1S	07-1SD	06-1SD	07-1SD	
速比 Speed ratio	38:1	42:1	48:1	130:1	180:1	168:1	180:1	180:1	816:1	532:1	816:1	
阀门连接法兰 Flange for valve connection	型号 Model	F12	F14	F16	F16	F30	F25	F30	F30	F35	F35	F40
	阀杆直径 Stem diameter	35	40	50	65	100	80	110	100	120	110	150
	键 key	10*8	12*8	14*9	20*12	28*16	22*14	32*18	28*16	32*18	32*18	40*22
连接电动执行器法兰 Flange for connection of actuator	型号 Model	F10	F10	F10	F10	F14	F14	F14	F14	F16	F14	F16
	阀杆直径 Stem diameter	25	25	25	25	32	32	32	32	45	32	45
	键 key	8*7	8*7	8*7	8*7	10*8	10*8	10*8	10*8	14*9	10*8	14*9
电动执行器 Electric actuators												
型号 Model	AVA03	AVA04	AVA04	AVA03	AVA04	AVA04	AVA04	AVA04	AVA06	AVA05	AVA06	
扭矩 Torque	110	205	205	110	250	250	250	250	350	240	350	
转数 RPM	24	36	36	24	24	24	24	24	72	48	72	
时间 Time	24S	18S	20S	81S	113S	105S	113S	113S	170S	164S	170S	

注: 执行器的选型请致电沃奥芙技术部。 Note: About the selection of the model of the actuators, please contact the technical department of WEOFF.

气动全焊接球阀

Pneumatically operated fully welded body ball valves



技术参数 Technical parameters

- 1.工作介质: 干燥或润滑的空气或无腐蚀性气体介质中杂质微粒小于30um。
- 2.气源压力: 最小气源压力2.5Bar, 最大气源压力8Bar。
- 3.介质环境温度: 标准: -20°C~80°C 低温: -35°C~80°C 高温: -15°C~150°C
- 4.行程调节: 0度和90度两个位置有±5度的调节范围。
- 5.选型: 在正常条件下, 考虑的安全系数为20%~30%。
例如: 阀门力矩=100Nm
安全力矩=100×(1+30%)=130Nm 气源压力=5 Bar
如表格应选配RT160DA。

- 1.Applicable medium: Dry or lubricated air or non-corrosive gas with impurities of diameter less than 30 μm.
- 2.Air supply pressure: 2.5 Bar ~ 8 Bar.
- 3.Temperature of the medium: Standard: -20°C ~ 80°C; Low temperature: -35°C ~ 80°C; High temperature: -15°C ~ 150°C
- 4.Adjustment of stroke: adjustable with a range of ±5° at the two positions of 0° and 90°.
- 5.Model selection: in normal conditions, the safety coefficient is given as 20% ~ 30%.
For example: Torque of valve = 100Nm,
Torque with safety coefficient = 100 x (1+30%) = 130Nm
Air supply pressure = 5 Bar
Therefore, RT160DA should be selected as per the table.

球阀 Ball valve		气动执行器 Pneumatic actuators						
(DN)	扭矩 Torque (N-m)	执行器 Actuator			法兰 Flange			直径 Diameter Φ
		型号 Model	直径 Diameter	扭矩 Torque (N-m)	型号 Model	B.C.D	键 key	
15	14	RT020DA	14	20	F5	50	4-M6	4K-11
20	15							
25	17							
32	18	RT050DA	18	50.2	F7	70	4-M8	4K-14
40	20							
50	36							
65	47	RT160DA	21	165.3	F10	102	4-M10	4K-22
80	82							
100	120							
125	240	RT435DA	31	427.5	F12	125	4-M12	4K-27
150	370							
200	720							
250	1350	RT1800DA	50	1923.8	F16	165	4-M20	4K-46
300	1650							
		RT2700DA	50	2924.1	F16	165	4-M20	4K-46



背景技术 Technical background

在流体介质输送管道中，球阀是一种有效必备的截断装置。为了清除流体介质中的杂质和污物，保持输送管道的清洁和畅通，在输送管道中设置过滤器则是一种提高流体质量必不可少的重要设备。现有输送管道中安装过滤器和球阀因占用空间大，常受到使用条件的限制并且过滤器的拆洗困难。

本实用新型自滤式焊接球阀，解决了现有管道中设置过滤器受到的安装条件限制和维修时存在清洗困难等问题，其设计合理，结构紧凑，操作灵活省力，安装、维修非常方便，既显著减少占用空间，又有利于降低成本和广泛推广应用。

在自滤式焊接球阀开启状态下，流体介质通过球体的通孔内腔时，可以由自身设置的过滤网对流体介质进行过滤，当球体顺时针转90度时，自滤式焊接球阀处于关闭状态，起截断输送管道中流体介质的作用。

在阀体的侧壁设置联通的中道法兰和与清洗水管连接的排污管，可以通过打开中道法兰盖和排污管，方便快捷的清洁过滤网，也可以在排污管上设置电动阀门或气动阀门，以便实现对过滤网进行自动冲洗。若过滤网破损，打开中道法兰盖可以进行更换。

In the pipeline transporting fluid, ball valve is an effective and necessary cutting-off device. To clean off the impurity and sludge in the fluid medium, a filter is necessary. Installation of a filter and ball valve in an existing pipeline occupies too large space to be always possible. Furthermore, it's difficult to dismantle and clean the filter.

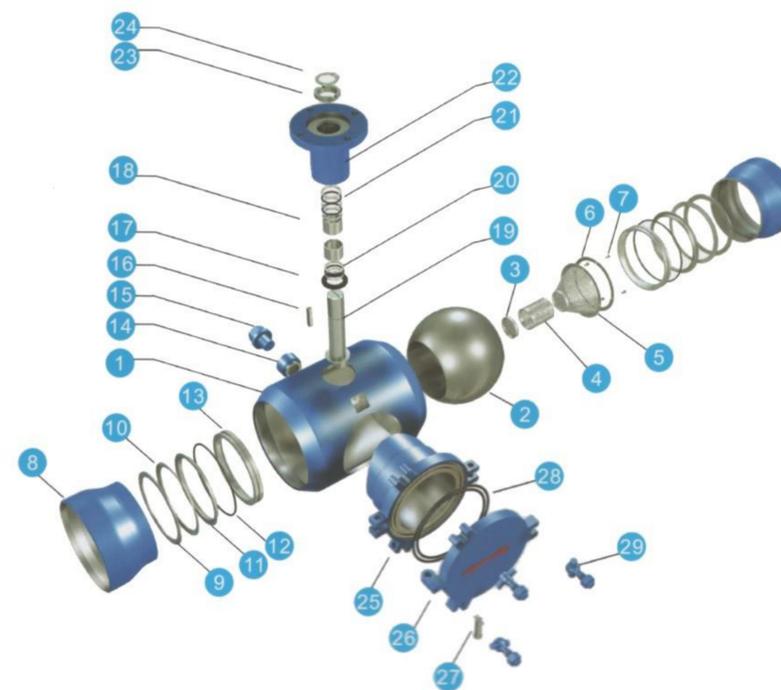
This self-filtering fully welded body ball valve solves the problem above. With a compact structure, it facilitates the installation and maintenance, as well as cost-reduction and wide application.

When fluid medium passes through the hole of the ball, the self-filtering fully welded body ball valve at open position can filter the fluid medium with its in-built filter screen. When the ball turns 90 degree clockwise, the self-filtering fully welded body ball valve is at close position, cutting off the fluid in the pipeline.

A middle flange and a drainage pipe connected to a cleaning pipe are situated at the side of the body. The flange cover and the drainage pipe can be opened to clean the filter screen. In addition, an electrically or pneumatically operated valve can be installed in the drainage pipe to wash the filter screen automatically. If the filter screen is broken, it can be replaced by opening the middle flange cover.

技术特点

Technical features



01	阀体 Body	11	阀座环 Seat ring	21	O型圈 O-Ring
02	球体 Ball	12	O型圈 O-Ring	22	阀杆套 Stem cover
03	底网 Bottom screen	13	阀座 Seat	23	压环 Junk ring
04	筒网 Cylindrical screen	14	泄压阀座 Seat of pressure relief valve	24	开口销 Split pin
05	椎体网 Conical screen	15	泄压阀 Pressure relief valve	25	中法兰 Middle flange
06	固定圈 Retainer ring	16	键 Key	26	盖板 Cover
07	六角螺钉 Hexagonal screw	17	挡片 Stopper plate	27	销轴 Clevis pin with head
08	边阀体 Side body	18	阀杆滑套 Stem bushing	28	O型圈 O-Ring
09	垫片 Gasket	19	阀杆 Stem	29	活结螺栓 Eye bolt
10	碟簧 Disc spring	20	垫片 Gasket		

- ★ 整体式焊接球阀，不会有外部泄漏现象。
- ★ 阀座由碳化特氟龙密封环及弹簧构成，对压力和温度变化适应能力强，在标注压力和温度范围内不会产生任何泄漏。
- ★ 球体的加工过程由先进的计算机检测仪跟踪监测，球体的精度高。
- ★ 密封环采用含量25%Carbon碳素的C-PTFE材质，保障完全无泄漏。
- ★ 与同类相同规格产品相比，阀体小，重量轻，外形美观，使用寿命长。
- ★ 阀体、球体及边阀体均采用无缝钢管制成型。阀杆处采用双道“O型圈”密封，并且具有防吹出功能。
- ★ 过滤网与球体结合为一体，滤网球阀连接在管道中本身有过滤功能，可以替代过滤器进行使用，起到一阀多用的效果，节省了管道安装空间及运营成本，可以阻拦直径大于4.5mm的杂质通过。
- ★ 滤网采用坡型口设计，保障阀门在阻断杂质颗粒情况下介质正常通过，阀门正常工作。采用泄压阀设计，可调节阀体内外压差，提高阀门安全性能，同时可采用螺纹球阀替代泄压阀，操作更省时、省力、方便、灵活。

- ★ Fully welded body ball valves, no external leakage.
- ★ The seat is constituted by carbonized Teflon sealing rings and springs, highly adaptive to the change of pressure and temperature, with zero leakage in the specified range of pressure and temperature.
- ★ The machining of the ball is monitored and tracked by advanced computer system, so the accuracy is very high.
- ★ The material of the sealing rings is C-PTFE with 25% carbon, ensuring zero leakage.
- ★ Compared with other products with the same function, this valve is smaller, lighter, more beautiful, more durable.
- ★ The body, the ball, and the side body are made of seamless steel tube. The stem is sealed with double O-rings, and is anti-blowout.
- ★ With an in-built filter screen in the ball, the valve in the pipeline can filter by itself, as an alternative to a separate filter. This multi-functional valve can block impurities of diameter greater than 4.5mm, and save space and cost.
- ★ The filter screen takes the form of a slope, ensuring the passage of the medium while blocking the impurities. With a relief valve, the differential pressure between the internal and external of the body can be regulated, improving the safety. A threaded ball valve can be an alternative to the relief valve, facilitating the operation.

传统过滤阀门 Traditional filter valve



劣势: 普通过滤器, 只有过滤功能, 需要配合阀门使用, 占用空间大, 增加安装成本。

Disadvantaged: A traditional filter with only filtering function must work with a valve, occupying larger space and costing more in installation.

过滤球阀 Ball valve with filter



优势: 全焊接过滤球阀, 有一阀多用的功能, 既起到介质切断作用, 同时拥有过滤功能, 这样既省了安装空间, 也可以节省传统的前置过滤器, 安装清洗简单、方便, 全焊接结构, 使用寿命更长。

Advantaged: The fully welded body ball valve with filter is multi-functional. It can cut off the fluid and can filter, saving space and dispensing with traditional pre-mounted filter, facilitating the installation and cleaning, being durable with its fully welded structure.

技术参数 Technical specifications

公称通径 Nominal diameter	DN65-DN350
公称压力 Nominal pressure	PN16-PN64
使用温度 Working temperature	-29°C-200°C
操作方式 Type of operation	手柄、齿轮、电动、气动 Handle, gear, electrical, pneumatic
使用范围 Applications	供热管网、污水处理、空调管网等工业管线领域。 Heat supply, sewage treatment, air-conditioning, and other industrial pipeline
使用介质 Applicable medium	水、气、油等无腐蚀性介质。 Water, gas, oil, and other non-corrosive medium

名称 Part name	材质 Material
阀体 Body	碳钢 Carbon steel
球体 Ball	不锈钢 Stainless steel
滤网 Filter screen	不锈钢 Stainless steel
排污盖 Drain-off cover	碳钢 Carbon steel
短接管 Nipple	碳钢 Carbon steel
阀座 Seat	PTFE+C

独特的滤网设计
Innovative design of filter

传统过滤网设计
The traditional filter design



杂质颗粒被截断于整个滤网内, 介质通过时严重受阻, 热量损失较大, 加大阀门内压力, 减少阀门使用寿命。

The impure particles are blocked in the whole section of the filter screen. The passage of the medium will be blocked. The heat loss is greater, the pressure in the valve is greater, and the service life of the valve is shorter.

可选择的泄压方式
Options for pressure relief

该过滤阀门的标准泄压配置为泄压阀结构, 同时可选择螺纹球阀替代泄压阀。

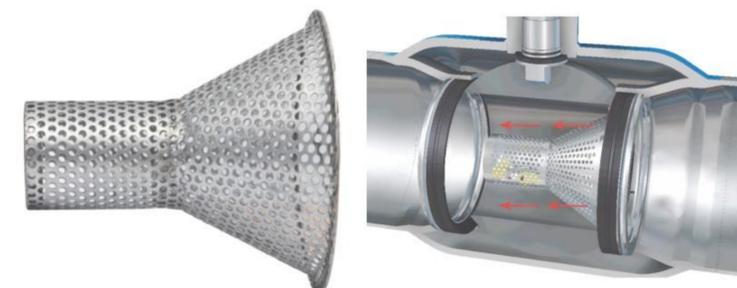
The standard configuration for this filtering valve is a pressure relief valve, while a threaded ball valve is available as an alternative.

螺纹球阀设计
Threaded ball valve design

通过螺纹球阀来泄掉过滤阀体内的压力: 螺纹球阀开启释放阀门内压力直至无压, 用气压泵对螺纹球阀一侧施加压力来清除滤网内的灰尘及杂质。

The pressure in the filtering valve is discharged through the threaded ball valve. Open the threaded ball valve and the pressure in the valve will discharge until zero; then exert pressure, with a pneumatic pump, on the end of the threaded ball valve to eliminate the dirt and impurities in the filter screen.

沃奥芙 坡型口过滤网设计 WEOFF Slope type filter design



坡型口设计, 杂质颗粒被截断于滤网底部, 介质于坡型口处正常通过, 不增加热量损失, 不对阀门产生内压力, 不减少阀门使用寿命。

The filter with a slope will block the impure particles at the bottom of the filter screen while allowing the medium to pass through the sloping face. This design doesn't increase heat loss, doesn't create internal pressure, doesn't shorten the service life of the valve.



泄压阀设计 Pressure relief valve design

阀门在进行清洗 / 维护时, 可通过泄压阀来泄掉阀体内的压力, 后打开排污口对滤网进行清洗 / 维护, 安全性非常可靠。

During cleaning / maintenance of the valve, the pressure in the valve body can be discharged through the pressure relief valve. Then open the drain-off outlet for the cleaning / maintenance of the filter screen. It's very safe and reliable.

使用方法
Method of use

安装及使用方法

阀体箭头指向为介质流动方向，关闭球阀，打开法兰盖的活结螺栓，取出滤网即可以清除阻拦下来的杂质。

Installation and usage

The arrow on the valve body points to the direction of the medium flow. Close the ball valve and open the bolts of the flange cover, take out the filter screen, then remove the impurities blocked.

清洗过程 The cleaning process



正常使用状态下的自滤式全焊接球阀阀体箭头所指方向为介质流动方向。

In normal operation condition, the arrow on the self-filtering fully welded body ball valve points to the direction of the medium flow.

关闭过滤阀门，通过泄压阀，逐渐释放过滤球阀体内压力直至无压。

Close the filtering valve, then discharge gradually, through the pressure relief valve, the pressure in the valve body until zero.

阀门内无压力后，缓慢打开过滤球阀排污口。

When there is no pressure in the valve, open slowly the drain-off outlet of the filtering ball valve.



把已经清洁 / 更换的过滤网，重新安装回阀门内，开始正常工作。

Install back the cleaned / replaced filter screen into the valve. OK!

取下固定过滤网的螺栓后取出装满颗粒、杂质的过滤网。

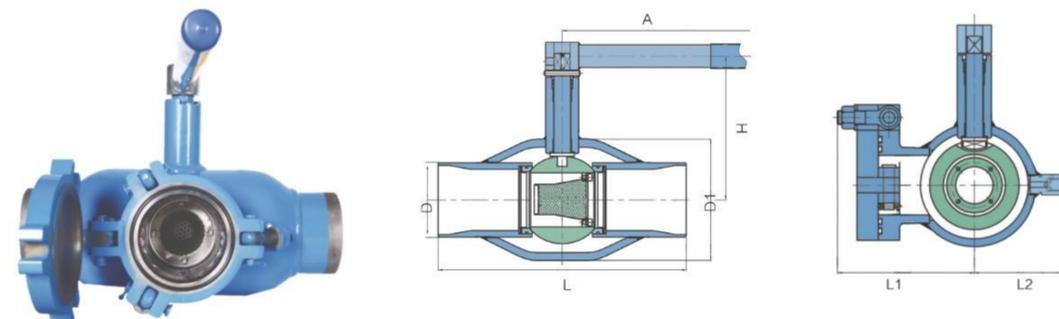
Take off the bolts which fix the filter screen, and take out the filter screen full of impure particles.

清除阀门内的液体污垢及杂质颗粒。

Remove the sludge and impure particles from the valve.

标准径焊接式过滤球阀

Reduced-port welding ends ball valve with filter

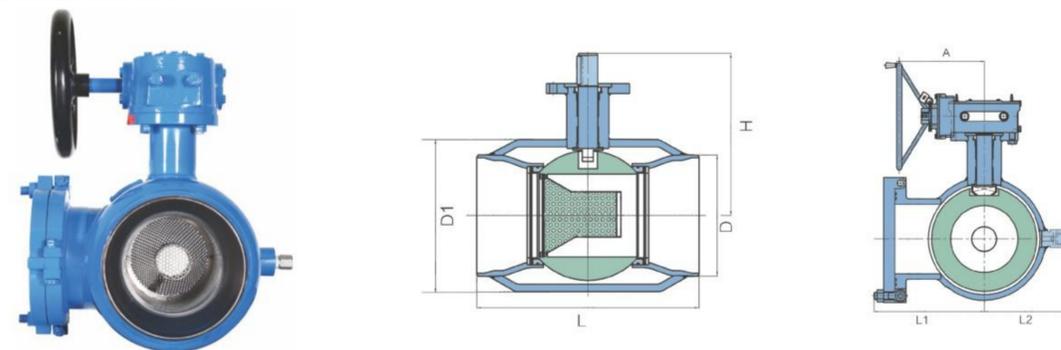


手柄传动 PN25 Manually operated PN25

单位(unit):mm

SIZE	A	L	L1	L2	D		D1	H
					COSI	EN		
DN65	300	360	176	114	76.3	76.1	140	186
DN80	400	370	204	127	89.0	88.9	165	210
DN100	400	380	204	127	108	114.3	165	210
DN125	400	385	210	135	133	139.7	180	214
DN150	450	400	245	155	159	168.3	219	220

注：订货时请确认尺寸。 Note: please make sure the size when you order it.



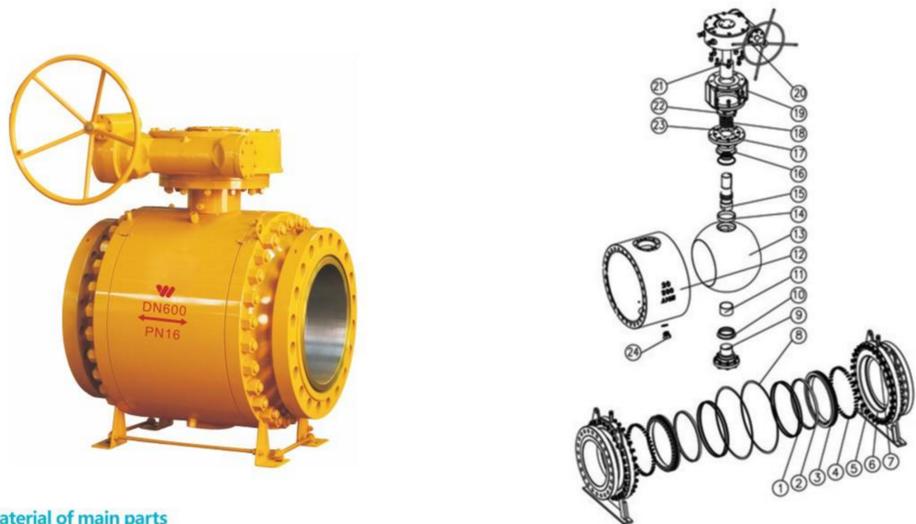
齿轮传动 PN25 Gear operated PN25

单位(unit):mm

SIZE	A	L	L1	L2	D		D1	H
					COST	EN		
DN200	198	400	270	178	219.0	219.1	267	318
DN250	225	560	332	222	273.0	273.1	356	395
DN300	245	740	407	282	323.9	323.9	457	467
DN350	319	800	455	455	377.0	355.6	508.0	540

注：订货时请确认尺寸。 Note: please make sure the size when you order it.

法兰连接固定式锻钢球阀 Flanged forged steel fixed ball valve



主要零件材料 Material of main parts

序号 NO.	零件名称	材质	
		GB	ASTM
1	O型圈 O-Ring	氟橡胶 Viton	氟橡胶 Viton
2	密封圈 Sealing ring	PTFE	PTFE
3	阀座 Seat	25	A105
4	弹簧 Spring	60Si2Mn	Inconel X-750
5	螺柱 Stud	35CrMoA	A193-B7
6	左右体 Bonnet	25	A105
7	注脂阀 Grease injection valve	组合件 Assemblies	组合件 Assemblies
8	垫片 Gasket	柔性石墨+不锈钢 Flexible graphite + stainless steel	柔性石墨+不锈钢 Flexible graphite + stainless steel
9	下阀杆 Lower stem	1Cr13	A182-F6a
10	垫片 Gasket	柔性石墨+不锈钢 Flexible graphite + stainless steel	柔性石墨+不锈钢 Flexible graphite + stainless steel
11	衬套 Bushing	PTFE & 锡青铜 PTFE & Bronze	PTFE & 锡青铜 PTFE & Bronze
12	阀体 Body	25	A105

注：抗硫型阀门该零件的材质为GB(1Cr18Ni9)、ASTM(A276-321)
抗硫型阀门该零件的材质为GB(1Cr18Ni9、CF8+NiP)、
ASTM(A182-304、CF8+NiP)
系列阀门主要零部件及密封面的材料可根据实际工况条件或
用户特殊要求设计选用

Note: The material of this part about the anti-sulphur type
valve is GB (1Cr18Ni9), ASTM (A276-321)
The material of this part about the anti-sulphur type
valve is GB (1Cr18Ni9,CF8 + Ni,P),
ASTM (A182-304, CF8 + Ni,P)
The material of the main parts and sealing face of the
valves can be chosen according to the actual working
conditions and the special needs of the customers.

序号 NO.	零件名称	材质	
		GB	ASTM
13	球体 Ball	25+ENP	A105+ENP
14	衬套 Bushing	PTFE & 锡青铜 PTFE & Bronze	PTFE & 锡青铜 PTFE & Bronze
15	上阀杆 Upper stem	1Cr13	A182-F6a
16	垫片 Gasket	柔性石墨+不锈钢 Flexible graphite + stainless steel	柔性石墨+不锈钢 Flexible graphite + stainless steel
17	阀盖 Cover	25	A105
18	填料 Packing	柔性石墨 Flexible graphite	柔性石墨 Flexible graphite
19	支架 Yoke	WCB	A216-WCB
20	驱动装置 Actuator	组合件 Assemblies	组合件 Assemblies
21	连接套 Connected sets	45	AISI C1045
22	填料压盖 Gland	WCB	A216-WCB
23	定位销 Fitting pin	1Cr13	A276-410
24	排污堵头 Blow down stoppie	25	A105

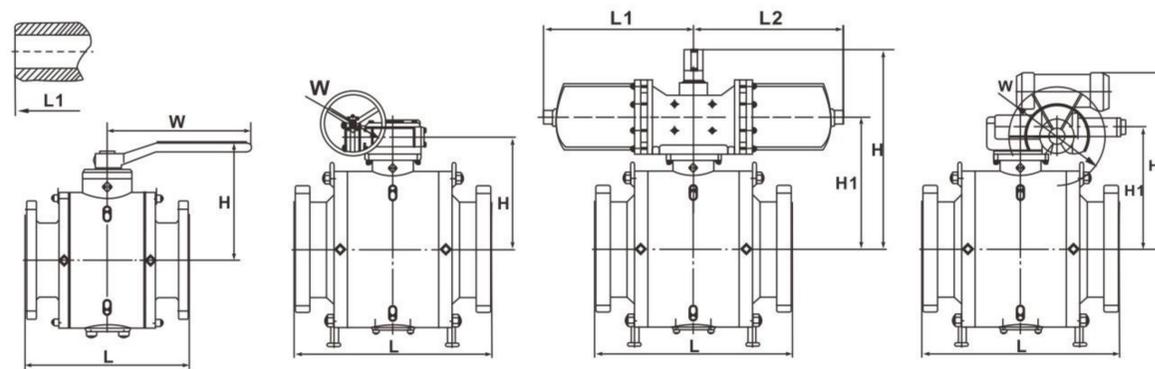
技术规范 Applicable standards

设计标准 Design reference	GB/T 12237 GB/T 19672	API 6D
结构长度 Face-to-face dimension (End-to-end dimension)	GB/T 12221	API 6D ASME B16.10
法兰尺寸 Flange size	GB/T 9113 JB/T 79	ASME B16.5 ASME B16.47
试验与检验 Test & inspection	JB/T 9092 GB/T 19672	API 598 API 6D

注：1、系列阀门连接法兰端尺寸可根据用户要求设计制造。
2、DN > 1000 (40°) 阀门设计标准按《长输管线阀门技术条件》

Note: 1. The dimensions of the flanged ends of the valves can be
designed according to the needs of the customers.
2. DN > 1000 (40°) the design standard is accordance
with 《specification of the length pipe valve》

法兰连接固定式锻钢球阀 Flanged forged steel fixed ball valve



主要外形尺寸 Dimensions

PN1.6MPA CLASS 150 PN2.5MPA CLASS 300

DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
法兰 Flange	L	292	330	356	406	495	597	673	762	826	902	978	1054	1232	1397	1651	1880	2300	2057	2400	2400	2700
对焊 Butt welding	L1	292	330	356	406	495	597	673	762	826	902	978	1054	1232	1397	1651	1880	2300	2050	2180	2300	2400
手动 Manually operated	H	136	164	191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	230	400	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	kg	35	40	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮 蜗杆 传动 Worm gear operated	H	-	-	-	244	303	342	382	420	458	558	598	630	759	836	915	987	1212	1460	1600	1760	1845
	W	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	1000	1000	1000	1000
	型号 Type	-	-	-	B	C	C	C	D	D	DA	DA	DB	DC	DO	DO	DH	800	D1	D1	DK	DK
气动 Pneumatically operated	kg	-	-	-	180	240	296	425	780	1210	1650	1720	2400	3560	6100	8200	11500	DH	17800	2600	4100	46200
	H	269	-	519	636	728	839	1014	1120	1225	1480	-	1480	1365	1430	-	-	14500	-	-	-	-
	H1	209	-	295	322	386	527	698	750	883	1080	-	1080	915	980	-	-	-	-	-	-	-
电动 Electrically operated	L1	148	-	287	287	378	378	530	530	680	680	-	680	1665	1665	-	-	-	-	-	-	-
	L2	257	-	287	287	378	378	530	530	680	680	-	680	1665	1665	-	-	-	-	-	-	-
	型号 Type	AG13	-	AW13	AW13	AW17	AW20	AW28	AW28	AW28	C1-355	-	C1-355	C2-490	C2-490	-	-	-	-	-	-	-
H	H	-	-	-	-	520	560	554	661	635	757	879	803	981	1073	1133	1287	1512	2114	2254	2424	2524
	H1	-	-	-	-	303	342	382	420	458	558	598	630	759	836	915	987	1212	1390	1530	1700	1800
	W	-	-	-	-	200	200	200	280	280	280	305	305	305	460	460	600	600	600	600	600	600
kg	kg	-	-	-	-	390	470	790	1250	1710	2250	2520	3220	4600	6500	8400	12000	15800	19000	27500	42000	47200
	型号 Type	-	-	-	-	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H2BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-1 +H5BC	SMC-3 +H6BC	SMC-3 +H6BC	SMC-3 +H7BC	SMC-4 +H7BC	SMC-4 +H7BC	SMC-5 +H6BC	SMC-5 +H7BC	SMC-5 +H7BC	SMC-5 +H7BC

浮动锻钢球阀
Forged steel floating ball valve



产品采用标准 Applicable standards

设计依据 Design reference		GB	API	ASME
设计标准 Design standard		GB/T 12237	API 6D	ASME B16.34
结构长度 Face-to-face dimension (End-to-end dimension)	连接法兰 Flanged ends	GB/T 12221	API 6D	ASME B16.10
	焊接 Welded connection	GB/T 15188.1		
连接法兰 Flanged ends		GB/T 9113 JB/T 79	ASME B16.5	
对焊端 Butt-welding ends		GB/T 12224	ASME B16.25	
试验和检验 Test & inspection		GB/T 9092	API 6D	API 598

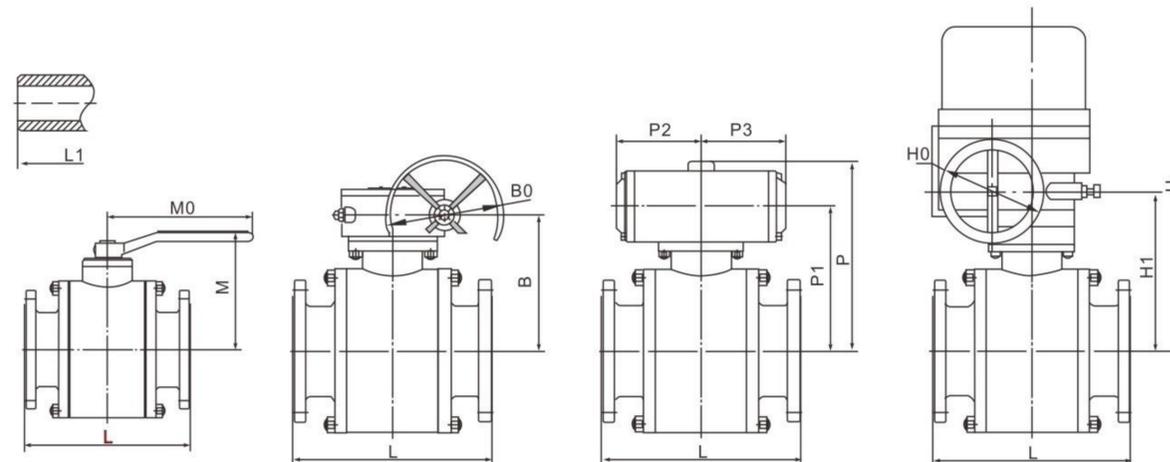
注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。
Note: the dimensions of the flanged ends and the butt-welding ends can be designed according to the needs of the customers.

主要零件材料 Major parts material form

序号 No.	零件名称 Part name	材料 Material		序号 No.	零件名称 Part name	材料 Material	
		GB	ASTM			GB	ASTM
1	垫片 Gasket	柔性石墨+不锈钢 Flexible graphite + stainless steel	B12.10-304/F.G.	9	垫片 Gasket	PTFE	PTFE
2	阀座 Seat	PTFE	PTFE	10	填料垫 Packing seat	1Cr13	A276-410
3	右体 Bonnet	25	A105	11	填料 Packing	柔性石墨 Flexible graphite	柔性石墨 Flexible graphite
4	螺母 Nut	32	A194-2H	12	填料压盖 Packing gland	WCB	A216-WCB
5	螺柱 Stud	35CrMoA	A193-B7	13	螺栓 Bolt	35	A193-B7
6	阀体 Body	25	A105	14	定位片 Locating piece	Q235A	Carbon steel
7	球体 Ball*	25+HCr	A105+HCr	15	挡圈 Ring	65Mn	AISI 1566
8	阀杆 Stem**	1Cr13	A276-410	16	手柄 Handle	KT33	A47-667 Gr.32510

注：*抗硫型阀门该零件的材质为GB(1Cr18Ni9+Ni.P)、ASTM(A182-304+Ni.P)
The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9+Ni.P), ASTM(A182-304+Ni.P)
**抗硫型阀门该零件的材质为GB(1Cr18Ni9)、ASTM(A276-321)
The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9), ASTM(A276-321)
系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。
The material of the main parts and sealing face of the valves can be chosen according to the actual working conditions and the special needs of the customers.

浮动锻钢球阀
Forged steel floating ball valve



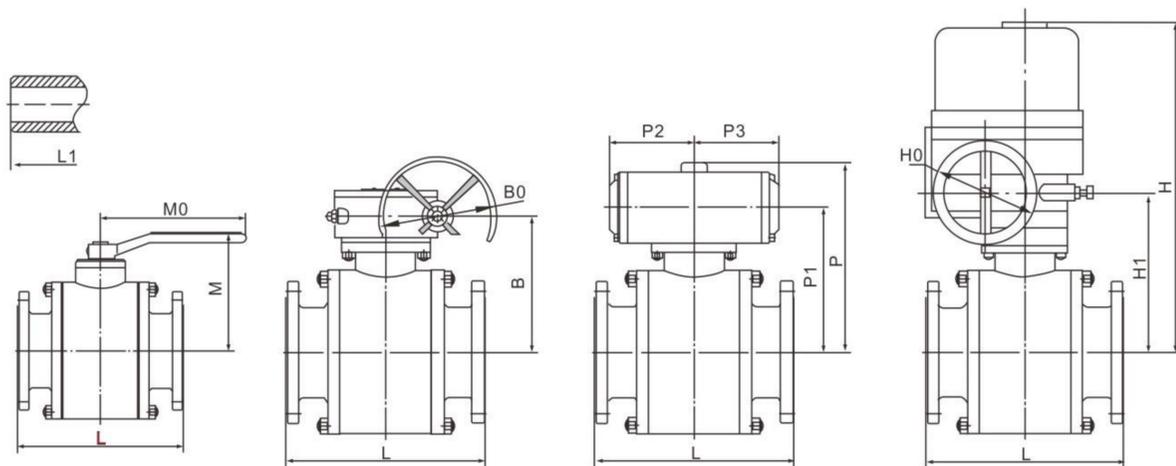
主要外形尺寸 Main size of outside

型号Model:(K)Q3(6、7、8、9)4(6)1F(Y、N、PPL)

压力等级 Pressure	公称口径 Nominal diameter		法兰 Flange	对焊 Butt welding	手动 Manually operated		蜗轮蜗杆 Worm gear worm			气动、液动 Pneumatically operated, hydraulically operated				电动 Electrically operated				
	mm	in			L	L1	M	M0	B	B0	型号 Model	P	P1	P2	P3	型号 Model	H	H1
1.6MPa 2.0MPa (150Lb)	15	1/2	108	140	73	130	-	-	-	205	125	326	136	Ag06	-	-	-	-
	20	3/4	117	152	80	130	-	-	-	235	140	326	136	AG09	-	-	-	-
	25	1	127	165	88	160	-	-	-	244	148	347	181	AG09	-	-	-	-
	32	1 1/4	140	178	105	180	-	-	-	325	195	420	181	AG13	-	-	-	-
	40	1 1/2	165	190.5	95	230	-	-	-	340	195	420	181	AG13	-	-	-	-
	50	2	178	216	130	230	-	-	-	354	223	426	257	AG13	435	340	190	Q60-1
	65	2 1/2	191	241	145	400	-	-	-	366	235	426	257	AG13	445	350	190	Q60-1
	80	3	203	283	191	400	-	-	-	415	285	490	257	AG13	455	360	190	Q60-1
	100	4	229	305	200	460	-	-	-	485	330	523	287	AG13	495	400	190	Q60-1
	125	5	356	381	225	750	-	-	-	607	340	378	378	AW17	575	425	400	Q120-1
150	6	394	457	245	750	260	400	A	623	415	378	378	AW17	645	495	400	Q120-1	
200	8	457	521	285	950	300	600	B	742	500	530	530	AW20	680	530	400	Q120-1	

注：标准径阀门结构长度、连接法兰按全通径规格；阀门高度、驱动装置尺寸同缩小一个规格尺寸。
Note: The face-to-face dimension and the connecting flanges of the reduced-port valves are the same as those of the full-port valves; the valve height and the dimensions of the actuators should be reduced to the next smaller size.

浮动锻钢球阀 Forged steel floating ball valve



型号Model:(K)Q3(6、7、8、9)4(6)1F(Y、N、PPL)

主要外形尺寸 Dimensions

压力等级 Pressure	公称通径 Nominal diameter		法兰 Flange	对焊 Butt welding	手动 Manually operated	蜗轮蜗杆 Worm gear			气动、液动 Pneumatically operated, hydraulically operated					电动 Electrically operated				
	mm	in				L	L1	M	M0	B	B0	型号 Model	P	P1	P2	P3	型号 Model	H
2.5MPa 4.0MPa 5.0MPa (300Lb)	15	1/2	140	140	75	140	-	-	-	205	125	326	136	AG06	-	-	-	-
	20	3/4	152	152	80	140	-	-	-	236	140	326	136	AG09	-	-	-	-
	25	1	165	165	85	180	-	-	-	245	150	347	181	AG09	-	-	-	-
	32	1 1/4	178	178	100	230	-	-	-	325	195	420	181	AG13	-	-	-	-
	40	1 1/2	190.5	190.5	105	230	-	-	-	325	195	420	181	AG13	-	-	-	-
	50	2	216	216	135	240	-	-	-	360	230	426	257	AG13	435	340	190	Q60-1
	65	2 1/2	241	241	165	400	-	-	-	390	260	426	257	AG13	445	350	190	Q60-1
	80	3	283	283	190	400	-	-	-	415	285	490	257	AG13	455	360	190	Q60-1
	100	4	305	305	235	750	-	-	-	510	350	523	287	AG13	495	400	190	Q60-1
	125	5	381	381	240	750	-	-	-	620	415	610	378	AW17	575	425	400	Q120-1
150	6	403	457 ^① 403	255	900	325	400	A	675	465	610	378	AW17	645	495	400	Q120-1	
200	8	502	521	310	1200	390	600	B	825	580	885	530	AW20	680	530	400	Q120-1	

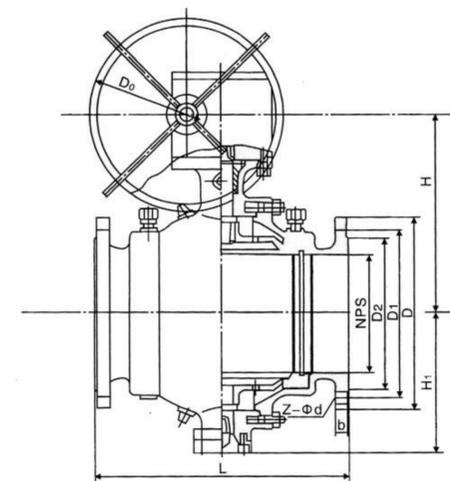
注：标准阀门结构长度、连接法兰按全通径规格；阀门高度、驱动装置尺寸同缩小一个规格尺寸。

①457为PN2.5MPa、4.0MPa尺寸；403为Class300Lb尺寸。

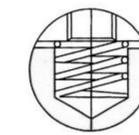
Note: The face-to-face dimension and the connecting flanges of the reduced-port valves are the same as those of the full-port valves; the valve height and the dimensions of the actuators should be reduced to the next smaller size.

①457 to be the size of PN2.5MPa, 4.0MPa; 403 to be the size of Class300Lb.

不锈钢球阀 Stainless steel ball valve



耐火结构
Fire durable



防静电结构
Anti static safety

主要外形和连接尺寸 Main external and connection dimensions

单位(unit):mm

产品型号 Type	公称通径 DN	PN1.6MPa									
		L	D	D1	D2	b	Z-φd	H	H1	Do	
Q47F-16C Q47F-16P Q67F-16C	50	178	160	125	100	16	4-φ18	177	120	-	
	65	190	180	145	120	18	4-φ18	190	140	-	
	80	203	195	160	135	20	8-φ18	210	150	-	
	100	229	215	180	155	20	8-φ18	235	172	-	
Q347F-16C Q347F-16P Q367F-16C	125	356	245	210	185	22	8-φ18	350	215	-	
	150	394	280	240	210	24	8-φ23	530	250	-	
	200	457	335	295	265	26	12-φ23	620	290	600	
Q647F-16C Q647F-16P Q667F-16C	250	533	405	355	320	30	12-φ25	650	320	600	
	300	610	460	410	375	30	12-φ25	780	360	600	
	350	686	520	470	435	34	16-φ25	790	395	800	
Q747F-16C Q747F-16P Q747F-16C	400	762	580	525	485	36	16-φ30	920	450	800	
	450	864	640	585	545	40	20-φ30	970	490	800	
	500	914	705	650	608	44	20-φ34	1100	530	800	
Q9B47F-16C Q9B47F-16P Q9B67F-16C	600	1067	840	770	718	48	20-φ41	1150	590	800	
	700	1245	910	840	788	50	24-φ41	1580	700	800	

一片式内螺纹球阀
1pc threaded end ball valve



特点 Feature

1PC Body
Reduced Bore (Port)
Size: 1/4"~4" (DN6~100)
Working Pressure: 1000PSI
Threaded End: Optional BSPT、NPT、DIN2999

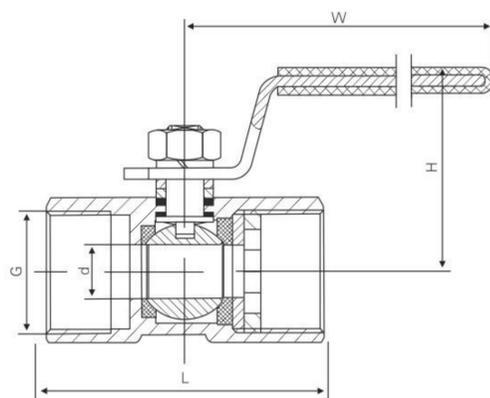
1PC 结构设计
标准口径
产品规格: 1/4"~4" (DN6~100)
工作压力: 1000PSI
螺纹端可按: BSPT、NPT、DIN2999 制造

材料列表 Material list

NO	部件名称	Part Name	材料Material
1	阀体	Body	WCB CF8M
2	阀盖	Bonnet	WCB CF8M
3	阀座	Seat	RPTFE
4	球	Ball	SS304 SS316
5	密封垫	Seal Gasket	PTFE
6	阀杆密封	Stem seal	PTFE
7	阀杆	Stem	SS316
8	防静电装置	Anti-Static Device	SS304
9	阀杆填料	Stem Packing	PTFE
10	填料压盖	Packing Gland	SS304
11	弹性垫圈	Spring washer	SS304
12	手柄	Handle	SS304

尺寸列表 Dimensions

NPS	DN	d	L	H	W
1/4	6	5	40	22	80
3/8	10	7	45	26	80
1/2	15	9	57	31	88
3/4	20	12	60	34	88
1	25	15	72	38	105
1-1/4	32	20	79	43	105
1-1/2	40	25	85	50	124
2	50	32	101	57	124
2-1/2	65	38	125	89	180
3	80	50	150	102	190
4	100	65	195	120	215



二片式内螺纹球阀
2pc threaded end ball valve



特点 Feature

2PC Body
Full Bore
Size: 1/4"~4" (DN6~100)
Handle With Locking Device
Working Pressure: 1000PSI (6.5MPa)
Threaded End: BSPT、NPT、DIN2999

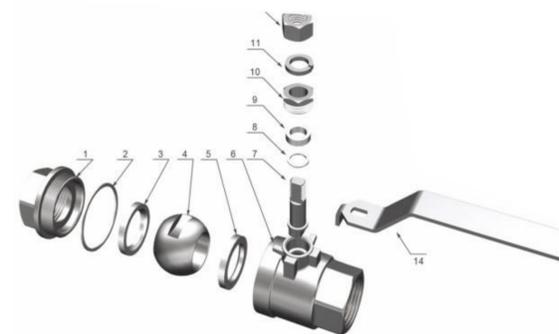
2PC结构设计
全口径
产品规格: 1/4"~4" (DN6~100)
带锁手柄
工作压力: 1000PSI (6.5MPa)
螺纹端可按 BSPT、NPT、DIN2999 制造

材料列表 Material list

NO	部件名称	Part Name	材料Material
1	阀体	Body	CF8 CF8M
2	阀盖	Bonnet	CF8 CF8M
3	球	Ball	SS304 SS316
4	阀座	Seat	RPTFE
5	阀杆	Stem	SS304 SS316
6	手把	Handle	SS304
7	填料	Packing	PTFE
8	密封垫	Seal Gasket	PTFE
9	螺母	Nut	SS304
10	把套	Handle Cover	Plastic
11	垫圈	Thrust Washer	SS304

尺寸列表 Dimensions

NPS	DN	d	L	H	W
1/4	6	10	55	42	95
3/8	10	12	55	42	95
1/2	15	15	62	51	108
3/4	20	20	75	58	115
1	25	25	85	77	135
1-1/4	32	32	102	83	150
1-1/2	40	38	108	97	175
2	50	50	124	106	190
2-1/2	65	65	163	122	220
3	80	80	185	133	250
4	100	100	225	162	320



三片式内螺纹球阀 3pc threaded end ball valve



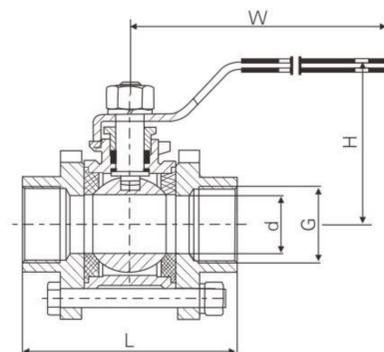
特点 Feature

3PC Body
Full Bore
Size: 1/4"~4"
Working Pressure: 1000PSI
Threaded End: Optional BSPT, NPT, DIN2999
Female Threaded or Socket Welded End
(Optional) Locking device Handle

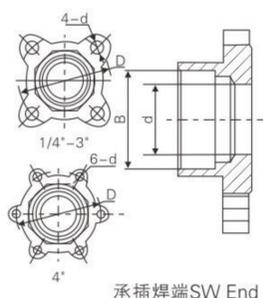
3PC结构设计
全口径
产品规格: 1/4"~4"
工作压力: 1000PSI
螺纹端可按BSPT、NPT、DIN2999制造
可选螺纹或承插焊端口
可选带锁手柄

材料列表 Material list

NO	部件名称	Part Name	材料Material
1	阀体	Body	CF8M
2	阀盖	Bonnet	CF8M
3	阀座	Seat	RPTFE
4	球	Ball	SS316
5	密封垫	Gasket	PTFE
6	阀杆密封	Stem seal	PTFE
7	阀杆	Stem	SS316
8	防静电装置	Anti-Static Device	SS304
9	阀杆填料	Stem Packing	PTFE
10	填料压盖	Packing Gland	SS304
11	弹性垫圈	Spring washer	SS304
12	手柄	Handle	SS304
13	螺母	Stem Nut	SS304



内螺纹端 Threaded End



承插焊端 SW End

尺寸列表 Dimensions

NPS	DN	d	L	H	W	4-d	B1	B2
1/4	6	11.5	65	46	95	7	12	15
3/8	10	12	65	46	95	7	14	17.2
1/2	15	15	75	46	110	8	18	21.3
3/4	20	20	85	54	110	8.5	25	26.9
1	25	25	90	64	140	8.5	32	33.7
1-1/4	32	32	112	69	140	10	38	42.4
1-1/2	40	38	120	76	155	10	45	48.3
2	50	50	145	86	180	11	57	60.3
2-1/2	65	65	170	120	200	16	76	76.1
3	80	80	200	150	260	18	89	88.9
4	100	100	263	170	350	20	108	114.3

内螺纹三通球阀 threaded end three-way ball valve



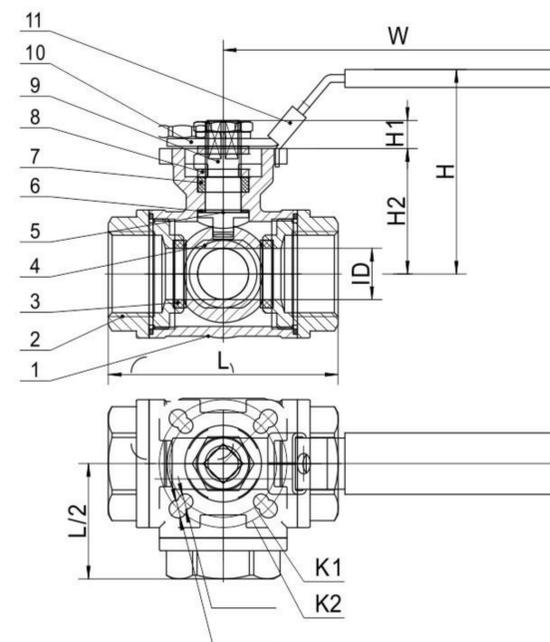
特点 Feature

Reduced bore(Port);L-Pattern&T-Pattern
W.P.: 1000PSI(PN63)
W.T.: -20°C ~ 250°C(-4°F ~ 482°F)
1/4"~3"
Investment Casting Body&Cap
Blow-Out Proof Stem
Locking Device;ISO5211 Mounted Pad
Type of Drive: Manual, Pneumatic, Electric
Thread End: ANSI B1.20.1(NPT)/
ISO228/1&DIN259(G)/DIN2999&BS21(BSPT)

标准通径设计:
阀体通路: L-通或T-通
工作压力: 1000PSI(PN63)
工作温度: -20°C~250°C(-4°F~482°F)
1/4"-3"
硅溶胶阀体及阀盖/防吹出阀杆
手柄可选带锁装置: ISO5211平台
驱动方式: 手动、气动、电动
螺纹端可按: NPT螺纹/BSP、G螺纹/BSPT螺纹

材料列表 Material list

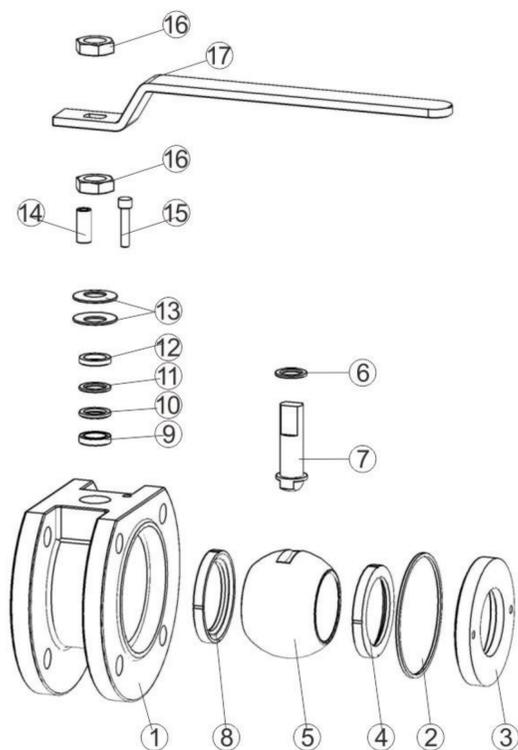
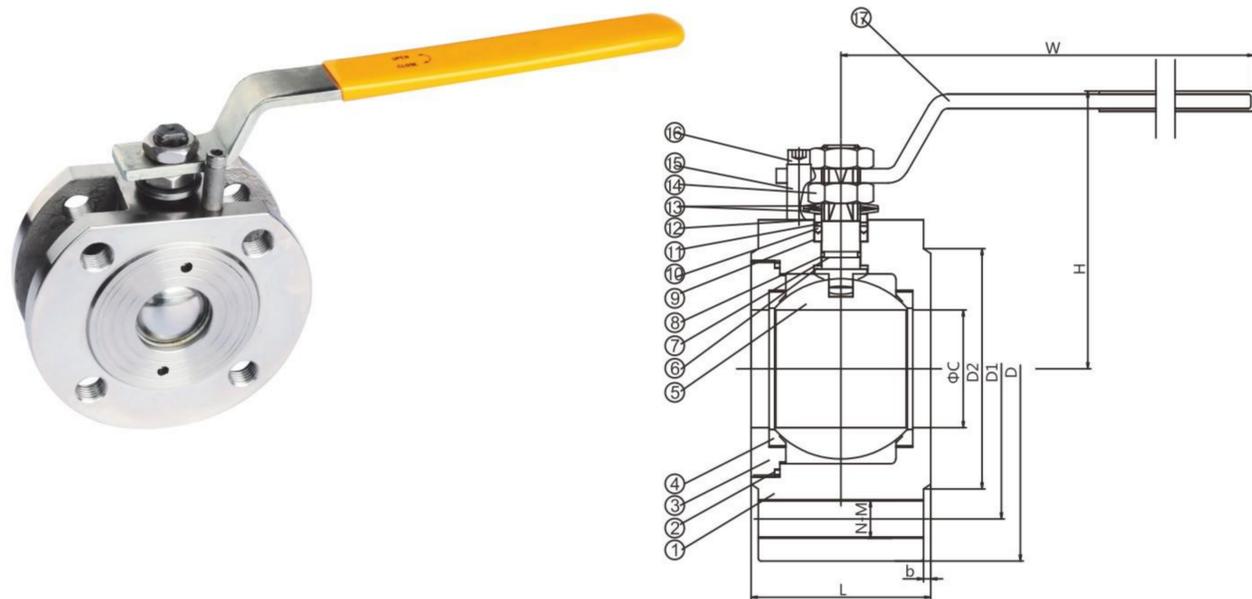
NO	部件名称	Part Name	材料Material		
1	阀体	Body	CF8M	Cf8	WCB
2	阀盖	Bonnet	CF8M	CF8	WCB
3	阀座	Seat	PTFE/RTFE	PTFE/RTFE	PTFE
4	球体	Ball	316	SS304	SS304
5	阀杆	Stem	316	SS304	SS304
6	弹性垫圈	Thrust Washer	PTFE	PTFE	PTFE
7	填料	Packing	PTFE	PTFE	PTFE
8	填料压盖	Packing Gland	SS301	SS301	SS302
9	六角螺母	Hex Nut	SS301	SS301	SS302
10	手柄	Handle	SS301	SS301	SS302
11	锁片	lock	SS301	SS301	SS302



尺寸列表 Dimensions

NPS	DNP	ID	L	H	W	H1	H2	K1	K2	d1	d2	F
1/2"	15	12	71	71	145	8.5	37	36	42	6	6	9
3/4"	20	15	81	74	145	14	40	36	42	6	6	9
1"	25	17	90	83	155	13	46	42	50	6	7	11
1-1/4"	32	25	125	94	155	11	57	42	50	6	7	11
1-1/2"	40	32	138	113	196	18.5	70	50	70	7	9	14
2"	50	38	152	120	196	18.5	77	50	70	7	9	14

对夹式球阀
wafer ball valve



NO.	Part name	Quantity	Material
1	阀体 Body	1	304/316L
2	阀盖密封圈 Bonnet Ring	1	PTFE
3	阀盖 Bonnet	1	304/316L
4	阀座 Seat	2	PTFE
5	球体 Ball	1	304/316L
6	阀杆四氟垫圈 Stem PTFE Ring	1	PTFE
7	阀杆 Stem	1	304/316L
8	O型圈 O-Ring	1	NBR
9	凹V型圈 Concave V-type Ring	1	PTFE
10	凸V型圈 Convex V-type Ring	1	PTFE
11	四氟平面垫圈 PTFE Flat Ring	1	PTFE
12	铁环压圈 Hoop Pressure Ring	1	45/201/304
13	蝶形 Disc Spring	2	304
14	定位销 Positioning Pin	1	304
15	定位内六角螺栓 Positioning Hexagon Bolt	1	304
16	内六角螺母 Hexagon Nut	1	304
17	手柄 Handle	1	304+塑料(Plastic)

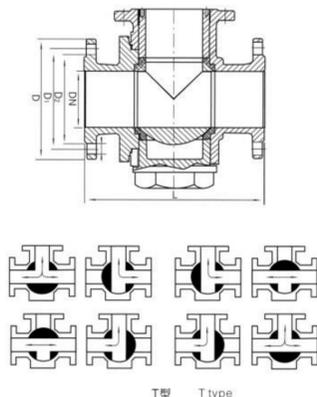
对夹式球阀
wafer ball valve

主要外型尺寸 Dimensions

公称压力 Nominal (Mpa)	公称通径(mm) Nominal Diameter	尺寸(mm) Size								
		SIZE	ØC	L	D	D1	D2	N	M	H
1.6	DN15	15	35	90	65	46	4	M12	66	93
	DN20	20	38.5	100	75	56	4	M12	68	125
	DN25	25	43	110	85	67	4	M12	75	125
	DN32	32	53	133	100	80	4	M16	95	160
	DN40	38	62	140	110	86	4	M16	100	180
	DN50	49	73	158	125	100	4	M16	110	185
	DN65	62	95	177	145	120	4	M16	115	195
	DN80	76	118	192	160	137	8	M16	160	300
	DN100	92	140	212	180	156	8	M16	170	310
	DN125	118	195	245	210	185	8	M16	190	650
2.5	DN15	15	35	90	65	46	4	M12	66	93
	DN20	20	38.5	100	75	56	4	M12	68	125
	DN25	25	43	110	85	67	4	M12	75	125
	DN32	32	53	133	100	80	4	M16	95	160
	DN40	38	62	140	110	86	4	M16	100	180
	DN50	49	73	158	125	100	4	M16	110	185
	DN65	62	95	177	145	120	8	M16	115	195
	DN80	76	118	192	160	137	8	M16	160	300
	DN100	96	140	230	190	156	8	M20	170	310
	DN125	118	195	270	220	188	8	M24	190	650
	DN150	150	236	300	250	218	8	M24	220	840
	DN200	200	275	360	310	278	8	M24	260	900

Q45F(T型)法兰三通球阀

Q45F Flanged T-pattern three way ball valve



主要性能规范 Main performance specifications

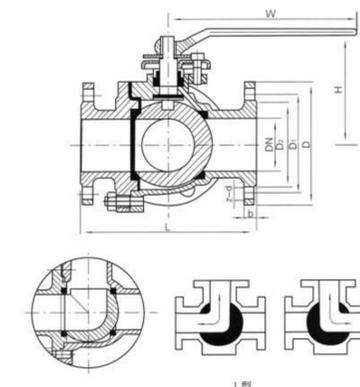
型号 Model	Q45F-16C	Q45F-16P	Q45F-16R
公称压力 Mpa nominal pressure	1.6	1.6	1.6
试验压力 P5 Test pressure(Mpa)	密封 Seal	1.76	1.76
	强度 Strength	2.4	2.4
工作压力 P(Mpa) Working pressure(气体)	1.6	1.6	1.6
工作温度(°C) Working temperature	≤150°C	≤150°C	≤150°C
适用介质 Applicable medium	油、汽水 Oil and soda	醋类 Vinegar	硝酸类 Nitric acid class

主要尺寸 Dimensions

型号 Model	Size DN	Dimensions(mm)									
		L	L2	D	D1	D2	b	f	Z-Φd	H	W
Q45F-16 P C R	15	150	75	95	65	45	14	2	4-Φ14	95	130
	20	160	80	105	75	55	14	2	4-Φ14	110	130
	25	180	90	115	85	65	14	2	4-Φ18	120	140
	32	200	100	135	100	78	16	3	4-Φ18	144	180
	40	220	110	145	110	85	16	3	4-Φ18	152	220
	50	240	120	160	125	100	16	3	4-Φ18	182	240
	65	260	130	180	145	120	16	3	4-Φ18	193	270
	80	280	140	195	160	135	20	3	8-Φ18	217	350
	100	320	160	215	180	155	20	3	8-Φ18	245	500
	125	380	190	245	210	185	22	3	8-Φ18	282	600
	150	440	220	280	240	210	24	3	8-Φ23	319	1000
	200	550	275	335	295	265	26	3	12-Φ23	380	1300
	250	670	335	405	355	320	30	3	12-Φ25	460	1700
	300	720	360	460	410	375	30	3	12-Φ25	520	2100
	350	880	440	520	470	436	32	4	16-Φ26	560	2800
	400	1000	500	580	525	485	36	4	16-Φ30	600	3500

Q44F(L型)法兰三通球阀

Q44F Flanged L-pattern three way ball valve



主要性能规范 Main performance specifications

型号 Model	Q44F-16C	Q44F-16P	Q44F-16R
公称压力 Mpa nominal pressure	1.6	1.6	1.6
试验压力 P5 Test pressure(Mpa)	密封 Seal	1.76	1.76
	强度 Strength	2.4	2.4
工作压力 P(Mpa) Working pressure(气体)	1.6	1.6	1.6
工作温度(°C) Working temperature	≤150°C	≤150°C	≤150°C
适用介质 Applicable medium	油、汽水 Oil and soda	醋类 Vinegar	硝酸类 Nitric acid class

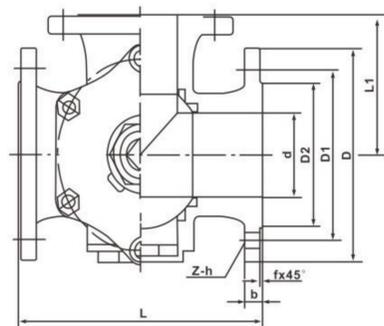
主要尺寸 Dimensions

型号 Model	Size	Dimensions(mm)									
		DN	L	L2	D	D1	D2	b	f	Z-Φd	H
Q44F-16 P C R	15	150	75	95	65	45	14	2	4-Φ14	95	130
	20	160	80	105	75	55	14	2	4-Φ14	110	130
	25	180	90	115	85	65	14	2	4-Φ18	120	140
	32	200	100	135	100	78	16	3	4-Φ18	144	180
	40	220	110	145	110	85	16	3	4-Φ18	152	220
	50	240	120	160	125	100	16	3	4-Φ18	182	240
	65	260	130	180	145	120	16	3	4-Φ18	193	270
	80	280	140	195	160	135	20	3	8-Φ18	217	350
	100	320	160	215	180	155	20	3	8-Φ18	245	500
	125	380	190	245	210	185	22	3	8-Φ18	282	600
	150	440	220	280	240	210	24	3	8-Φ23	319	1000
	200	550	275	335	295	265	26	3	12-Φ23	380	1300
	250	670	335	405	355	320	30	3	12-Φ25	460	1700
	300	720	360	460	410	375	30	3	12-Φ25	520	2100
	350	820	410	520	470	436	32	4	16-Φ26	560	2800
	400	1000	500	580	525	485	36	4	16-Φ30	600	3500

超短型三通固定球阀

CDQ48F-16P

Ultrashort type three way fixed ball valve



本公司设计的超短型三通固定球阀是积多年球阀生产经验，在传统的结构基础上改进或引进国外先进技术研制生产的新型专用球阀，本球阀采用固定式球体，阀门在工作时管道中阀前流体压力在球体上产生的作用力全部传递给上下轴承，球体不会移动，因而阀座不会承受过大的压力，并带有自动补偿性有效确保了阀门的密封性能，所以阀座变形小，操作力矩轻，密封性能可靠。阀座密封圈采用特殊材料，具有耐高温，耐腐蚀，耐磨损，使用寿命长的特点。球体表面硬化处理。

The ultrashort type three way fixed ball valve is an innovative special ball valve, developed by WEOFF on the basis of improvement of traditional structure and advanced technology abroad. This ball valve has a fixed ball. The pressure of the fluid on the ball is completely transmitted to the upper / lower bearings, and the ball doesn't move, so the valve seat doesn't bear too much pressure, and can ensure effectively the sealing performance of the valve with its feature of automatic compensation. The deformation of the seat is small, the operation torque is small, and the sealing performance is reliable. The sealing rings of the seat is made of special material, durable, resistant to high temperature, corrosion, abrasion. The ball surface is treated by hardening.

主要连接尺寸 Main connection dimensions

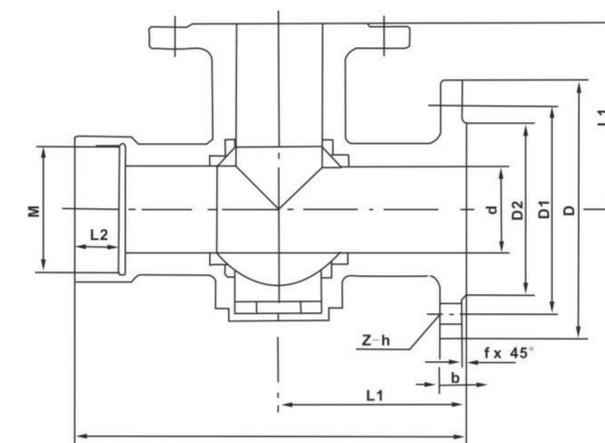
CDQ48F-16P A型 A type

DN		D	D1	D2	d	b	f	Z-h	L	L1
mm	in									
15	1/2	89	60.5	44	15	11.5	1.6	4-M12	120	70
20	3/4	98	70	52	20	11.5	1.6	4-Φ15	130	76
25	1	108	79.5	60	23.5	12	1.6	4-Φ15	145	80
32	1 1/4	117	89	63.5	30	13	1.6	4-Φ15	155	85
40	1 1/2	127	98.5	73	38	15	2	4-Φ15	160	90
50	2	152	120.5	92	50	16	2	4-Φ19	165	107
65	2 1/2	178	139.5	105	65	18	2	4-Φ19	185	127.5
80	3	190	152.5	127	80	20	2	4-Φ19	200	135
100	4	229	190.5	157	100	20	2	8-Φ19	215	146
150	6	279	241.5	216	150	24	2	8-Φ22	250	153

超短型三通固定球阀

CDQ48F-16P

Ultrashort type three way fixed ball valve

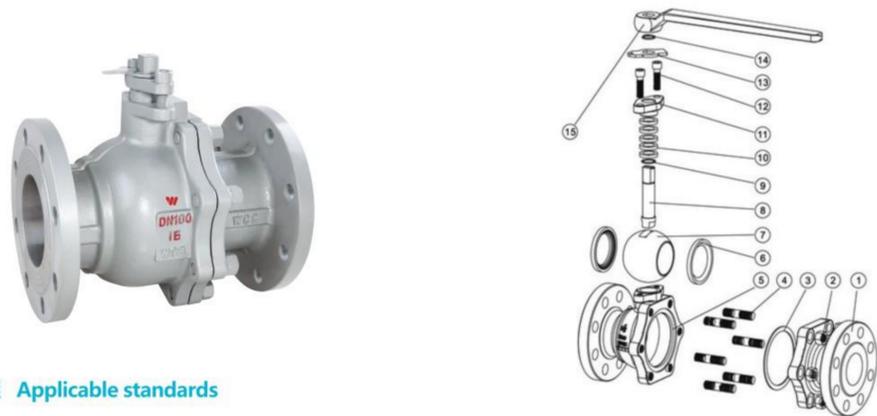


主要连接尺寸 Main connection dimensions

CDQ48F-16P B型 B type

DN		D	D1	D2	d	b	f	Z-h	L	L1	L2	M
mm	in											
50	2	152	120.5	92	45	16	2	4-Φ19	199.5	82.5	30	G2A
65	2 1/2	178	139.5	105	60	18	2	4-Φ19	235	105	35	G2A
80	3	190	152.5	127	80	20	2	4-Φ19	275	125	38	G3A
100	4	229	190.5	157	100	20	2	8-Φ19	304	139.5	44	G4A

浮动铸钢球阀 Cast steel floating ball valve



产品采用标准 Applicable standards

设计依据 Design reference	GB	API	ASME
设计标准 Design standard	GB/T 12237	API 6D	ASME B16.34
结构长度 Face-to-face dimension (End-to-end dimension)	连接法兰 Flanged ends	GB/T 12221	API 6D ASME B16.10
	焊接 Welded connection	GB/T 15188.1	
连接法兰 Flanged ends	GB/T 9113 JB/T 79	ASME B16.5	
对焊端 Butt-welding ends	GB/T 12224	ASME B16.25	
试验和检验 Test & inspection	GB/T 9092	API 6D	API 598

注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。

Note: the dimensions of the connecting flanges and the butt-welding ends can be designed according to the needs of the customers.

主要零件材料 Material of the main parts

序号 No.	零件名称 Part name	材料 Material		序号 No.	零件名称 Part name	材料 Material	
		GB	ASTM			GB	ASTM
1	右体 Bonnet	WCB	A216-WCB	9	垫片 Gasket	PTFE	PTFE
2	螺母 Nut	35	A194-2H	10	填料 Packing	柔性石墨 Graphite	柔性石墨 Graphite
3	垫片 Gasket	柔性石墨+不锈钢 Graphite+stainless steel	B12.10-304/F.G.	11	填料压盖 Packing gland	WCB	A216-WCB
4	螺柱 Stud	35CrMoA	A193-B7	12	螺钉 Screw nail	35	A193-B7
5	阀体 Body	WCB	A216-WCB	13	定位片 Locating piece	Q235A	Carbon steel
6	阀座 Seat	PTFE	PTFE	14	挡圈 Ring	65Mn	AISI 1566
7	球体 Ball*	25+HCr	A105+HCr	15	手柄 Handle	KT33	A47-667 Gr.32510
8	阀杆 Stem**	1Cr13	A276-410				

注：*抗硫型阀门该零件的材质为GB(1Cr18Ni9+Ni.P)、ASTM(A182-304+Ni.P)

The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9+Ni.P), ASTM(A182-304+Ni.P)

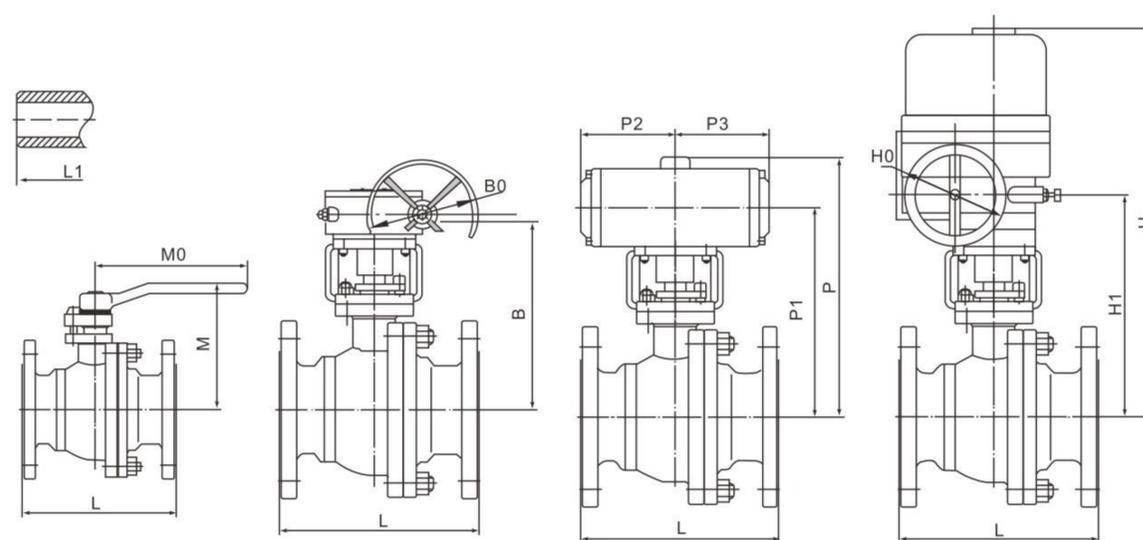
**抗硫型阀门该零件的材质为GB(1Cr18Ni9)、ASTM(A276-321)

The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9), ASTM(A276-321)

系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。

The material of the main parts and sealing face of the valves can be chosen according to the actual working conditions and the special needs of the customers.

浮动铸钢球阀 Cast steel floating ball valve



主要外形尺寸 Dimensions

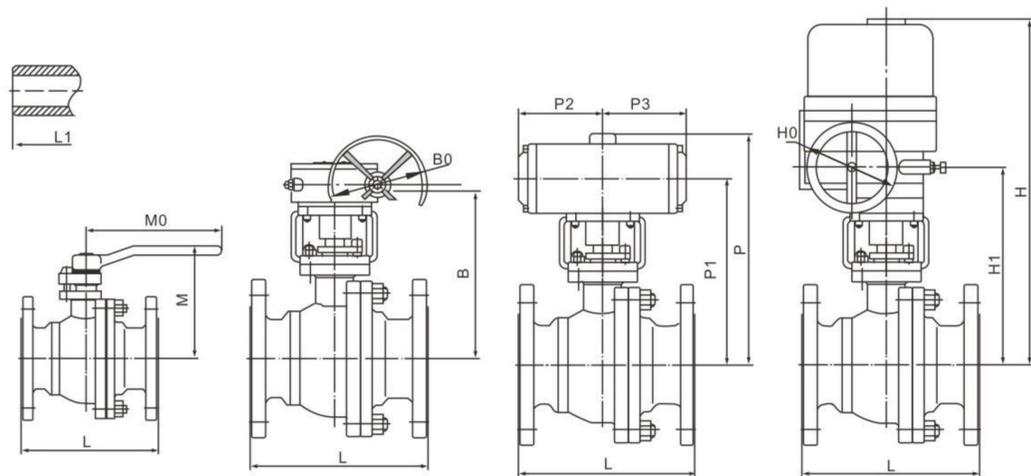
型号 Model: (K)Q3(6、7、8、9)4(6)1F(Y、N、PPL)

压力等级 Pressure	公称通径 Nominal diameter		法兰 Flange	对焊 Butt welding	手动 Manually operated		蜗轮蜗杆 Worm gear			气动、液动 Pneumatically operated, hydraulically operated				电动 Electrically operated				
	mm	in			L	L1	M	M0	B	B0	型号 Model	P	P1	P2	P3	型号 Model	H	H1
1.6MPa 2.5MPa (150Lb)	15	½	108	140	59	130	-	-	-	200	122	326	136	AG06	-	-	-	-
	20	¾	117	152	63	130	-	-	-	204	126	326	136	AG09	-	-	-	-
	25	1	127	165	75	160	-	-	-	257	162	347	181	AG09	-	-	-	-
	32	1 ¼	140	178	95	230	-	-	-	245	169	420	181	AG13	-	-	-	-
	40	1 ½	165	190.5	95	230	-	-	-	264	169	420	181	AG13	-	-	-	-
	50	2	178	216	107	230	-	-	-	340	209	426	257	AG13	472	377	190	Q60-1
	65	2 ½	191	241	142	400	-	-	-	370	239	426	257	AG13	486	391	190	Q60-1
	80	3	203	283	152	400	-	-	-	389	258	490	257	AG13	579	484	190	Q60-1
	100	4	229	305	178	650	-	-	-	594	337	523	287	AG13	595	500	190	Q60-1
	125	5	356	381	252	1050	-	-	-	646	437	378	378	AW17	650	500	400	Q120-1
150	6	394	457	272	1050	292	400	A	646	437	378	378	AW17	739	589	400	Q120-1	
200	8	457	521	342	1410	398	600	B	781	537	530	530	AW20	799	649	400	Q120-1	

注：标准径阀门结构长度、连接法兰按安全通径规格；阀门高度、驱动装置尺寸同缩小一个规格尺寸。

Note: The face-to-face dimension and the connecting flanges of the reduced-port valves are the same as those of the full-port valves; the valve height and the dimensions of the actuators should be reduced to the next smaller size.

浮动铸钢球阀 Cast steel floating ball valve



主要外形尺寸 Dimensions

型号Model:(K)Q3(6、7、8、9)4(6)1F(Y、N、PPL)

压力等级 Pressure	公称通径 Nominal diameter		法兰 Flange	对焊 Butt welding	手动 Manually operated		蜗轮蜗杆 Worm gear		气动、液动 Pneumatically operated, hydraulically operated				电动 Electrically operated						
	mm	in			L	L1	M	M0	B	B0	型号 Model	P	P1	P2	P3	型号 Model	H	H1	H0
2.5MPa 4.0MPa (300Lb)	15	1/2	140	140	59	130	-	-	-	200	122	326	136	AG06	-	-	-	-	-
	20	3/4	152	152	63	130	-	-	-	204	126	326	136	AG09	-	-	-	-	-
	25	1	165	165	75	160	-	-	-	257	162	347	181	AG09	-	-	-	-	-
	32	1 1/4	178	178	95	230	-	-	-	245	169	420	181	AG13	-	-	-	-	-
	40	1 1/2	190.5	190.5	95	230	-	-	-	264	169	420	181	AG13	-	-	-	-	-
	50	2	216	216	107	230	-	-	-	340	209	426	257	AG13	472	377	190	Q60-1	-
	65	2 1/2	241	241	142	400	-	-	-	379	248	426	257	AG13	486	391	190	Q60-1	-
	80	3	283	283	152	400	-	-	-	452	295	490	257	AG13	579	484	190	Q60-1	-
	100	4	305	305	178	650	-	-	-	594	375	523	287	AG13	595	500	190	Q60-1	-
	125	5	381	381	252	1050	-	-	-	646	437	378	378	AW17	650	500	400	Q120-1	-
150	6	403	457 ^① 403	272	1050	292	400	A	744	500	378	378	AW17	739	589	400	Q120-1	-	
200	8	502	521	342	1410	398	600	B	920	615	530	530	AW20	799	649	400	Q120-1	-	

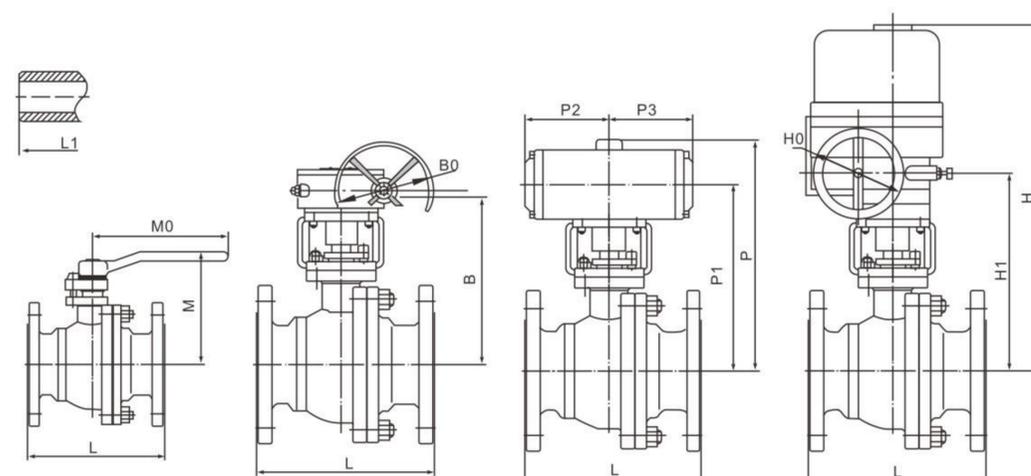
注：标准径阀门结构长度、连接法兰按全通径规格；阀门高度、驱动装置尺寸同缩小一个规格尺寸。

①457为PN2.5MPa、4.0MPa尺寸；403为Class300Lb尺寸。

Note: The face-to-face dimension and the connecting flanges of the reduced-port valves are the same as those of the full-port valves; the valve height and the dimensions of the actuators should be reduced to the next smaller size.

①457 to be the size of PN2.5MPa, 4.0MPa; 403 to be the size of Class300Lb.

浮动铸钢球阀 Cast steel floating ball valve



主要外形尺寸 Dimensions

型号Model:(K)Q3(6、7、8、9)4(6)1F(Y、N、PPL)

压力等级 Pressure	公称通径 Nominal diameter		法兰 Flange	对焊 Butt welding	手动 Manually operated		蜗轮蜗杆 Worm gear		气动、液动 Pneumatically operated, hydraulically operated				电动 Electrically operated						
	mm	in			L	L1	M	M0	B	B0	型号 Model	P	P1	P2	P3	型号 Model	H	H1	H0
6.4MPa 10.0MPa (600Lb)	15	1/2	165	165	59	160	-	-	-	200	122	326	136	Ag06	-	165	165	-	-
	20	3/4	190.5	190.5	63	160	-	-	-	204	126	326	136	AG09	-	-	-	-	-
	25	1	216	216	75	230	-	-	-	257	162	347	181	AG09	-	-	-	-	-
	32	1 1/4	178	178	95	230	-	-	-	245	169	420	181	AG13	-	-	-	-	-
	40	1 1/2	241	241	95	400	-	-	-	264	169	420	181	AG13	-	377	-	-	-
	50	2	292	292	167	400	-	-	-	340	209	426	257	AG13	472	449	400	Q120-1	-
	65	2 1/2	330	330	180	650	-	-	-	379	248	426	257	AG13	599	449	400	Q120-1	-
	80	3	356	356	198	650	292	400	A	452	295	490	257	AG13	599	472	400	Q120-1	-
	100	4	406 ^① 432	406 ^① 432	198	1050	398	600	B	594	375	378	378	AW17	632	430	400	Q120-1	-
	150	6	559	559	-	-	400	800	C	650	425	378	378	AW17	650	490	400	Q250-1	-
200	8	660	660	-	-	430	800	C	680	485	530	530	AW20	710	165	400	Q250-1	-	

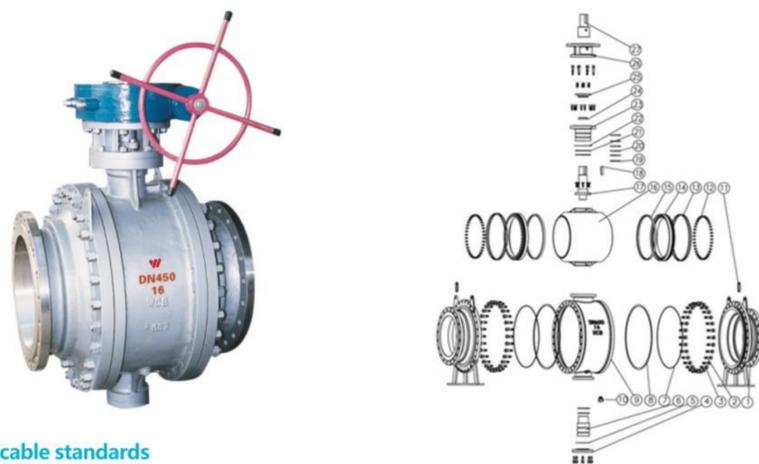
注：标准径阀门结构长度、连接法兰按全通径规格；阀门高度、驱动装置尺寸同缩小一个规格尺寸。

①406为PN6.4MPa、Class400Lb尺寸；432为PN10.0MPa、Class600Lb尺寸。

Note: The face-to-face dimension and the connecting flanges of the reduced-port valves are the same as those of the full-port valves; the valve height and the dimensions of the actuators should be reduced to the next smaller size.

①406 to be the size of PN6.4MPa, Class400Lb.; 432 to be the size of PN10.0MPa, Class600Lb.

固定式铸钢球阀 Cast steel fixed ball valve



产品采用标准 Applicable standards

设计依据 Design reference	GB	API	ASME
设计标准 Design standard	GB/T 12237	API 6D	ASME B16.34
结构长度 Face-to-face dimension (End-to-end dimension)	连接法兰 Flanged ends	API 6D	ASME B16.10
	焊接 Welded connection		
连接法兰 Flanged ends	GB/T 9113 JB/T 79	ASME B16.5、B16.47	
对焊端 Butt-welding ends	GB/T 12224	ASME B16.25	
试验和检验 Test & inspection	GB/T 9092	API 6D	API 598

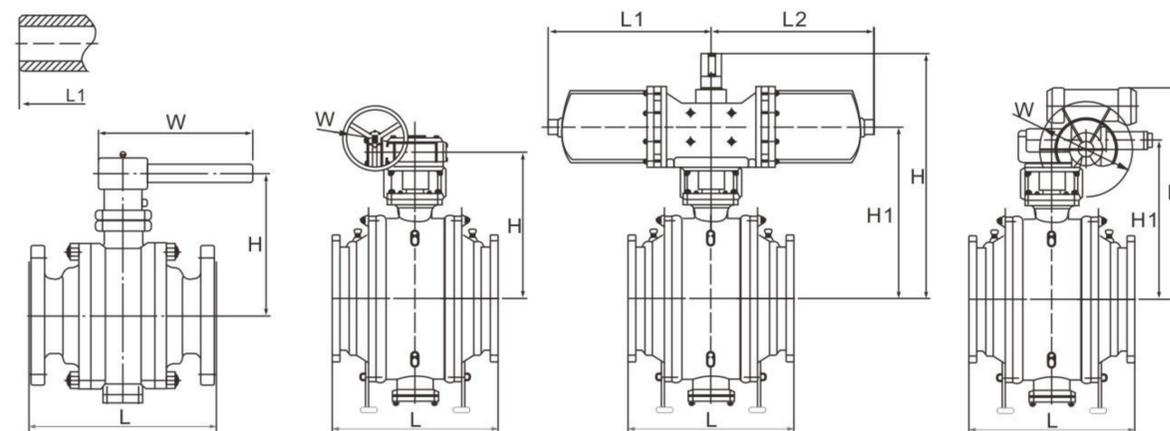
注：阀门连接法兰及对焊端尺寸可根据用户要求设计制造。
Note: the dimensions of the connecting flanges and the butt-welding ends can be designed according to the needs of the customers.

主要零件材料 Material of main parts

序号 No.	零件名称 Part name	材料 Material		序号 No.	零件名称 Part name	材料 Material	
		GB	ASTM			GB	ASTM
1	端盖 End closure	WCB	A216-WCB	15	注脂阀 Grease injection valve	组件 Package	组件 Package
2	螺母 Nut	35	A193-B7	16	球体 Ball*	WCB+HCr	WCB+HCr
3	底盖 Bottom cover	WCB	A216-WCB	17	阀杆 Stem**	1Cr13	A276-410
4	垫片 Gasket	PTFE、柔性石墨+不锈钢 PTFE, Flexible graphite + stainless steel	PTFE、B12.10-304/F.G	18	键 Key	45	AISI C 1045
5	螺钉 Screw	35CrMo	A194-2H	19	垫片 Gasket	PTFE、柔性石墨+不锈钢 PTFE, Flexible graphite + stainless steel	PTFE+304
6	下阀杆 Lower stem	1Cr13	A276-410	20	O型圈 "O" Ring	NBR	NBR
7	O型圈 "O" Ring	NBR	NBR	21	填料箱 Packing case	25	A105
8	垫片 Gasket	PTFE、柔性石墨+不锈钢 PTFE, Flexible graphite + stainless steel	PTFE、B12.10-304/F.G	22	螺钉 Screw	35CrMo	A194-2H
9	阀体 Body	WCB	A216-WCB	23	填料垫 Packing seat	1Cr13	A276-410
10	排污塞 Blowdown plug	25	A105	24	填料 Packing	PTFE; 碳纤维; 柔性石墨 PTFE, Carbon fiber, flexible graphite	
11	弹簧 Spring	Inconel x-750	Inconel x-750	25	填料压盖 Packing gland	WCB	A216-WCB
12	阀座 Seat*	25	A105	26	支架 Yoke	Q235A	碳钢 Carbon steel
13	密封圈 Sealing ring	PTFE	PTFE	27	连接套 Connection set	45	AISI C 1045
14	O型圈 "O" Ring	NBR	NBR				

注：*抗硫型阀门该零件的材质为GB(1Cr18Ni9+Ni.P)、ASTM(A182-304+Ni.P)
The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9+Ni.P), ASTM(A182-304+Ni.P)
*抗硫型阀门该零件的材质为GB(1Cr18Ni9)、ASTM(A276-321)
The material of this part about the anti-sulphur type valve is GB(1Cr18Ni9), ASTM(A276-321)
*系列阀门主要零部件及密封面的材质可根据实际工况条件或用户特殊要求设计选用。
The material of the main parts and sealing face of the valves can be chosen according to the actual working conditions and the special needs of the customers.

固定式铸钢球阀 Cast steel fixed ball valve



尺寸及重量 Dimensions and weight

DN	mm	PN1.6MPA CLASS 150										PN2.5MPA CLASS 300											
		50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1050	1200	1400	1500
NPS	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	32	36	40	42	48	56	60
法兰 Flange	L	178	191	203	229	356	394	457	533	610	686	762	864	914	1067	1245	1372	1524	1721	1829	2180	2300	2400
对焊 Butt welding	L1	216	241	283	305	381	457	521	559	635	762	838	914	991	1143	1346	1524	1727	1930	1689	2100	2250	2400
手动 Manually operated	H	107	125	152	178	300	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	W	230	400	400	450	700	750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	kg	9.5	15	19	33	58	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
蜗轮 蜗杆 传动 Worm gear operated	H	-	-	-	-	-	-	398	495	580	625	670	698	840	1050	1100	1150	1230	1320	1480	1610	1780	1865
	W	-	-	-	-	-	-	600	600	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	kg	-	-	-	-	-	-	160	180	240	390	510	750	1190	2600	3000	4490	7800	12560	14280	21900	34100	46200
气动 Pneumatically operated	H	269	379	389	479	552	666	804	839	972	1127	1459	1529	1559	1145	1160	1460	1540	1630	-	-	-	-
	H1	174	248	258	322	395	457	595	630	728	883	1154	1224	1294	915	930	1100	1180	1280	-	-	-	-
	L1	89	148	148	287	287	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	-	-	-	-	
电动 Electrical operated	L2	181	257	257	287	287	378	378	530	530	680	680	680	1455	1455	1665	1665	1960	-	-	-	-	
	型号 Type	AG09	AG13	AG13	AG13	AW17	AW17	AW17	AW17	AW20	AW20	AW28	AW28	AW28	C1-355	C1-355	C2-490	C2-490	C3-600	-	-	-	-
	kg	16.6	38	42.1	53	95.3	105.2	207.8	255	409	518	838	1067	1295	2330	3200	4750	8200	13200	-	-	-	-
手动 Manually operated	H	-	-	-	-	-	554	600	652	761	771	831	921	943	1123	1218	1328	1696	1925	2105	2245	2395	2470
	H1	-	-	-	-	-	337	382	435	480	520	580	670	770	850	945	1055	1130	1240	1420	1560	1710	1785
	W	-	-	-	-	-	200	200	200	280	280	280	305	305	305	400	400	460	460	600	600	600	600
手动 Manually operated	型号 Type	-	-	-	-	-	SMC-04 +H0BC	SMC-04 +H0BC	SMC-04 +H1BC	SMC-04 +H1BC	SMC-03 +H2BC	SMC-03 +H2BC	SMC-00 +H3BC	SMC-00 +H3BC	SMC-0 +H4BC	SMC-0 +H4BC	SMC-0 +H5BC	SMC-2 +H6BC	SMC-2 +H6BC	SMC-3 +H7BC	SMC-3 +H7BC	SMC-4 +H7BC	SMC-4 +H7BC
	kg	-	-	-	-	-	127	210	270	420	535	862	1100	1350	2420	3410	5120	9100	14100	15200	22300	36000	47000



序号	项目 (热力、 热电)	地址
1	辽源市热力集团投资有限公司	辽源市
2	太原市第二热力有限责任公司	太原
3	保定市清苑区泽龙热力有限公司	保定
4	天津市静海区科慧热力有限责任公司	天津
5	淄博市环保供热有限公司	山东
6	西安市热力总公司	陕西
7	枣庄市热力总公司	枣庄
8	唐山热力总公司	唐山
9	乌鲁木齐热力 (集团) 有限责任公司	新疆
10	哈尔滨热力有限公司	哈尔滨
11	中环寰慧集团	北京
12	张家口下花园供热有限公司	张家口
13	华能呼和浩特科林热电有限责任公司	内蒙
14	华能聊城昌润国电热力有限公司	山东
15	华能内蒙古蒙达发电有限责任公司	内蒙
16	华能山东石岛湾核电有限公司	山东
17	华能邯郸供热有限责任公司	河北
18	华能大庆热电有限责任公司齐南供热分公司	黑龙江
19	华能桂林燃气分布式能源有限责任公司	广西
20	西安沣东华能热力有限公司	陕西
21	华电天津军粮城发电有限责任公司	天津
22	辽宁华电铁岭发电有限公司	辽宁
23	华电福建漳州核电厂	福建
24	辽宁清河发电有限责任公司	辽宁
25	国电成都金堂发电有限公司	四川
26	国电安顺发电有限责任公司	贵州
27	三河发电有限责任公司	河北
28	北京顺政大龙供热有限公司	北京
29	中电投石家庄供热有限公司	石家庄
30	建投河北热力有限公司	石家庄
31	昔阳县阳春供热有限公司	晋中
32	北京永安热力有限公司	北京
33	大唐保定供热有限责任公司	保定
34	泰山集团股份有限公司	山东
35	唐山兴邦管道工程设备有限公司	唐山

序号	项目 (热力、 热电)	地址
36	潍坊泰和热力有限公司	北京
37	京能电力涿州科技环保有限公司	涿州
38	四平市巨元瀚洋板式换热器有限公司	四平
39	鱼台金源供热有限责任公司	山东
40	临沂裕泰节能科技有限公司	莒南
41	沈阳天丰电气有限公司	辽宁
42	沈阳祥运热力供暖有限公司	沈阳
43	沈阳沈水湾清洁能源有限公司	辽宁
44	沈阳新北热电有限责任公司	辽宁
45	沈阳国润低碳热力有限公司	辽宁
46	沈阳浑南热力有限责任公司	辽宁
47	国惠环保新能源有限公司	辽宁
48	沈阳国新环保新能源有限公司	辽宁
49	沈阳国浩蓝天环保新能源有限公司	辽宁
50	沈阳浑南市政建设工程有限公司	辽宁
51	西城区热力改造房屋修缮中心	北京
52	清水热力管网项目	甘肃
53	河北昊天热力发展有限公司	河北
54	中原环保新密热力有限公司	河南
55	郑州圣宇热力有限责任公司	河南
56	扶绥广能电力开发有限公司	广西
57	辽宁抚中瑞热电有限公司	辽宁
58	大唐国际张家口发电厂	河北

序号	项目 (燃气行业)	地址
1	乌鲁木齐燃气供热有限公司	新疆
2	北京太阳宫燃气热电有限公司	北京
3	桂林燃气分布式能源有限责任公司	广西
4	白银宏宇燃气有限公司	甘肃
5	义马综能新能源有限公司	河南
6	北京上庄燃气热电有限公司	北京
7	百川燃气有限公司	河北
8	廊坊新奥燃气有限公司	河北